

Original Documents, Pictures, Drawings and Screen Captures

Scanned by a G3 Facsimile Machine or Optical Scanner or Screen Capture Methods (B)

Connected to The Inventions Adjunct Device or PC Card: (C)  
For a Fax Machine and via Fax Modem and Circuitry that Generates Central Office Dial Tone or by Standard Auxillary Port Means-to Include USB or by Wireless Means-to include Infrared

Connected to A Packet Switched Network via Data Modem; to include Cable, Cellular and Satellite -Resident or Remote; and Standard RJ 11 Phone Line Connector or RJ 45 LAN Connector or Cable Connector or CDMA/TDMA Cellular Connection or Satellite Up Link/ Down Link Connection (D)

Receive Images Generated by the Fax Machine or Optical Scanner or Screen Capture Method (E)

Store Images in Memory Buffer(s) (F)

Invoke Hardware and Software process to Remove Inferior CODEC's or OCR scan codes Restoring images to Native Scanned Image State (G)

Store Native Image Data In Memory Buffer(s) (H)

Compress Native Image Data with Multi Dimensional CODEC's Resident in Eproms and ASIC. Specific CODEC's to include but are not limited to: LZW-TIFF & TIFF-FX, JPEG & JPEG, 2000, MPG, Streaming Media, Harmonic Matrix Multiplication, (I)

Store in Memory Buffer(s) (J)

Obtain Unique Electronic e-mail or IP Destination Address and public or secret encryption key for Intended Recipient from address table and key ting resident in flash memory or remotely from a data base and remote key server (K)

Associate Phone Number Dialed By The Fax Machine or Other Remote Device with the e-mail or IP destination address or if null Confirm destination address via device per (K) or PC keyboard

Store in Memory Buffer(s) (N)

If encryption is selected by user or by default, encrypt stored buffer of newly compressed Image data with encryption algorithm(s) stored in EPROM and/or resident in ASIC to include but not limited to S-MIME, S HTTP, SXML, SET, Rijndael, PGP, DES Vernam ciphers and RSA. Additionally the multi dimesional codecs of the harmonic matrix multiplication compression schemes available in this invention can be adapted to perform non-recoverable-disappearing key encryption. (O)

Store in Memory Buffer(s) (P)

Invoke message encapsulation protocols stored in EPROM(s), to include but not limited to IP, TCP, UDP ,SMTP, POP3, MIME & extended MIME message types, IMAP, HTML and XML and encapsulate entire previous memory buffer(s) within appropriate protocol stacks. (Q)

Store in Memory Buffer(s) (R)

Obtain users device, terrestrial location coordinates and/or biometrics from the device hardware and software. Hash the information to create a reflective non original information data map. (S)

Store hashed information in Memory Buffer(s) (T)

Generate message headers in accordance with selected protocols and may include non-standard x headers to identify specific transport, identity and receipt verification processes and other routing and sending/ reception requirements. (U)

Send entire now completed processed contents of the previous buffer(s) to intended recipient utilizing appropriate protocols over any terrestrial or satellite communication network. Retain entire contents of memory buffer(s) and message headers for a specified period of time. Entire or partial memory buffer(s) contents may be permantly archived, on premise or remotely, utilizing standard achieving media and processes. (U)

The reception process is the direct inverse of the sending process above for a stand alone G3 facsimile machine and in the reception mode (A) above may include direct printers/plotters or any other message media rendering equipment, for example 3 dimensional mold making machines.

Figure 1

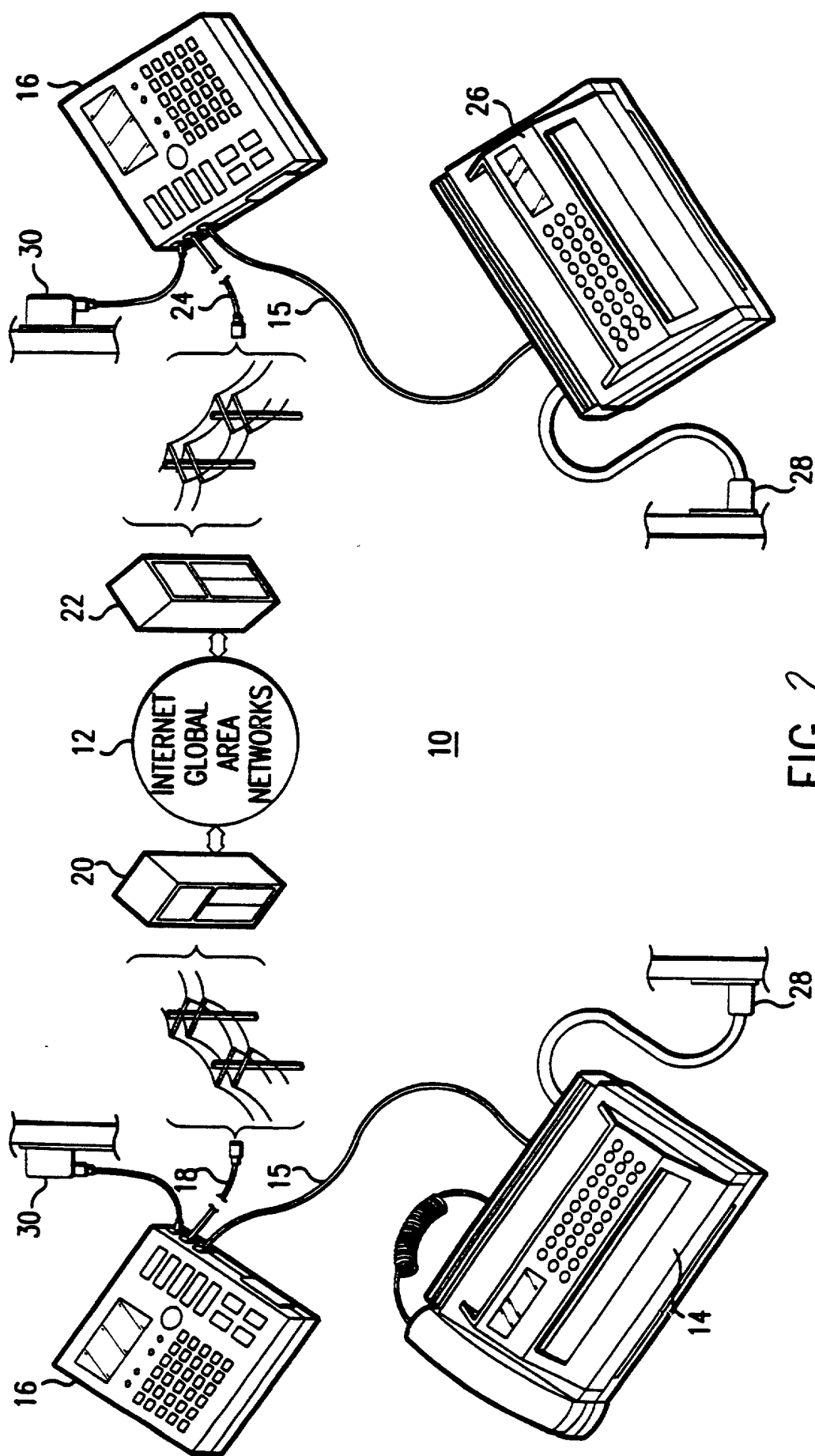


FIG. 2

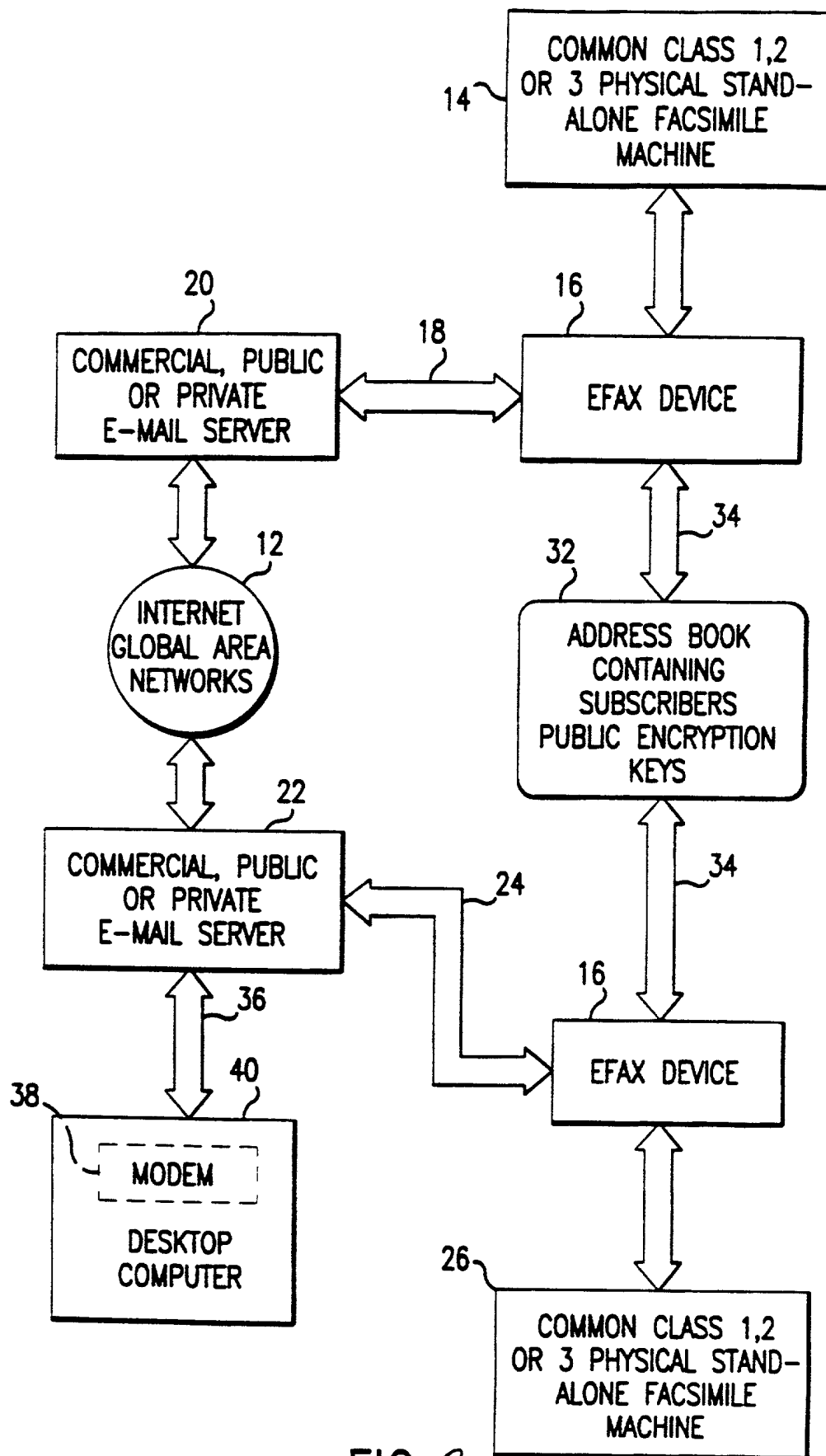


FIG. 3

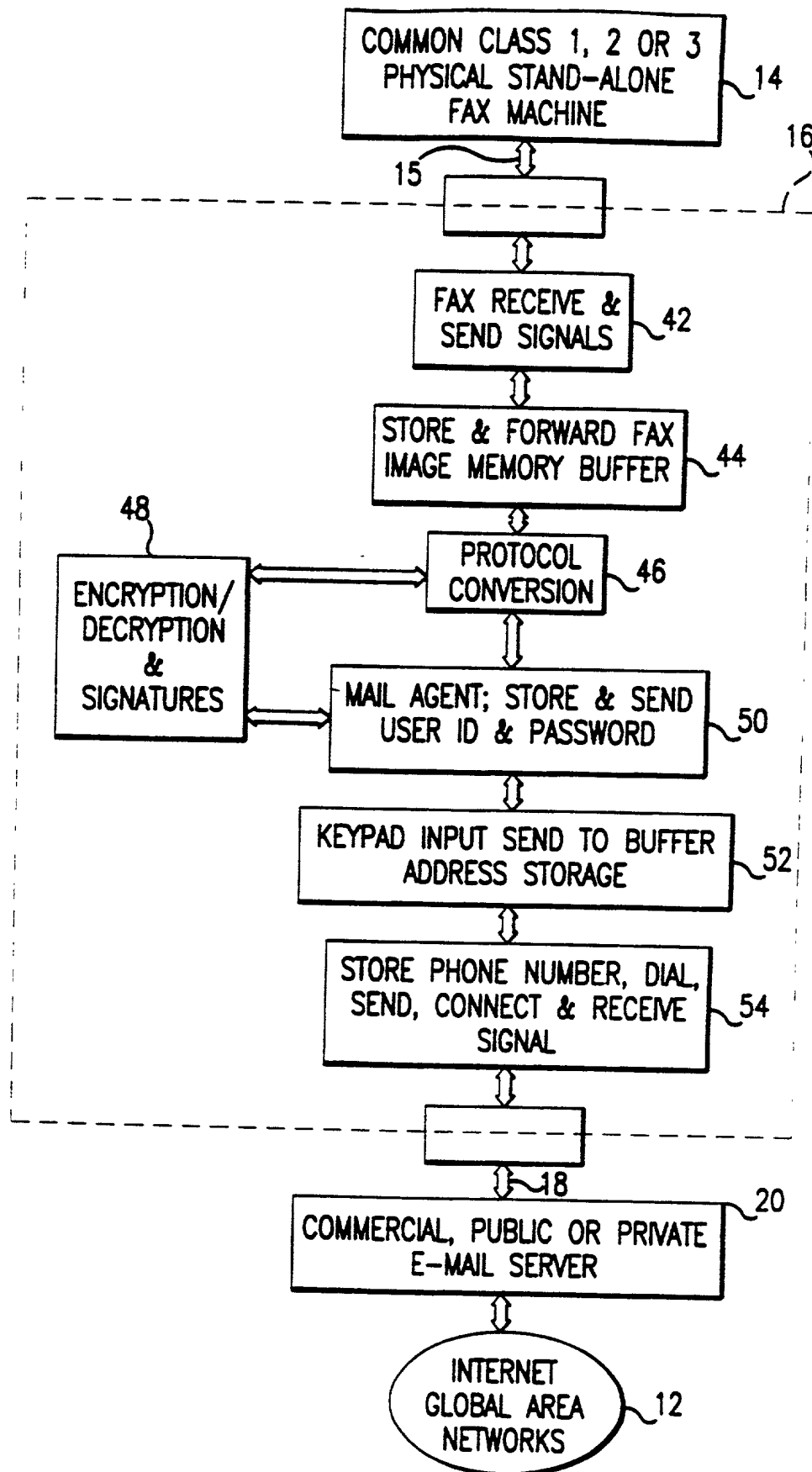


FIG. 4

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graph TD; A[COMMON CLASS 1,2 OR 3 PHYSICAL STAND-ALONE FAX MACHINE] <--> B[EFAX DEVICE]; B <--> C[COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER]; C <--> D((INTERNET GLOBAL AREA NETWORKS)); D <--> E[COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER]; E <--> F[EFAX DEVICE]; F <--> G[COMMON CLASS 1, 2 OR 3 PHYSICAL STAND-ALONE FAX MACHINE];
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The diagram illustrates a fax network architecture. It shows two main paths for communication between fax machines. The top path is a direct connection between a 'COMMON CLASS 1,2 OR 3 PHYSICAL STAND-ALONE FAX MACHINE' and an 'EFAX DEVICE'. The bottom path involves a 'COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER' connected to 'INTERNET GLOBAL AREA NETWORKS', which then connects to another 'COMMERCIAL, PUBLIC OR PRIVATE E-MAIL SERVER' and finally to an 'EFAX DEVICE'. All components are interconnected with bidirectional arrows, indicating two-way communication.

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graph TD
    A[COMMON CLASS 1,2  
OR 3 PHYSICAL  
STAND-ALONE FAX MACHINE] --> B[EFAX DEVICE  
DECRYPTION &  
SIGNATURES]
    B --> C[COMMERCIAL/PUBLIC  
E-MAIL SERVER]
    C --> D([INTERNET  
GLOBAL AREA  
NETWORKS])
    D --> E[COMMERCIAL, PUBLIC  
OR PRIVATE  
E-MAIL SERVER]
    E --> F[DECRYPTION &  
SIGNATURES  
EFAX DEVICE]
    F --> G[COMMON CLASS 1, 2  
OR 3 PHYSICAL  
STAND-ALONE FAX MACHINE]
  
```

FIG. 6

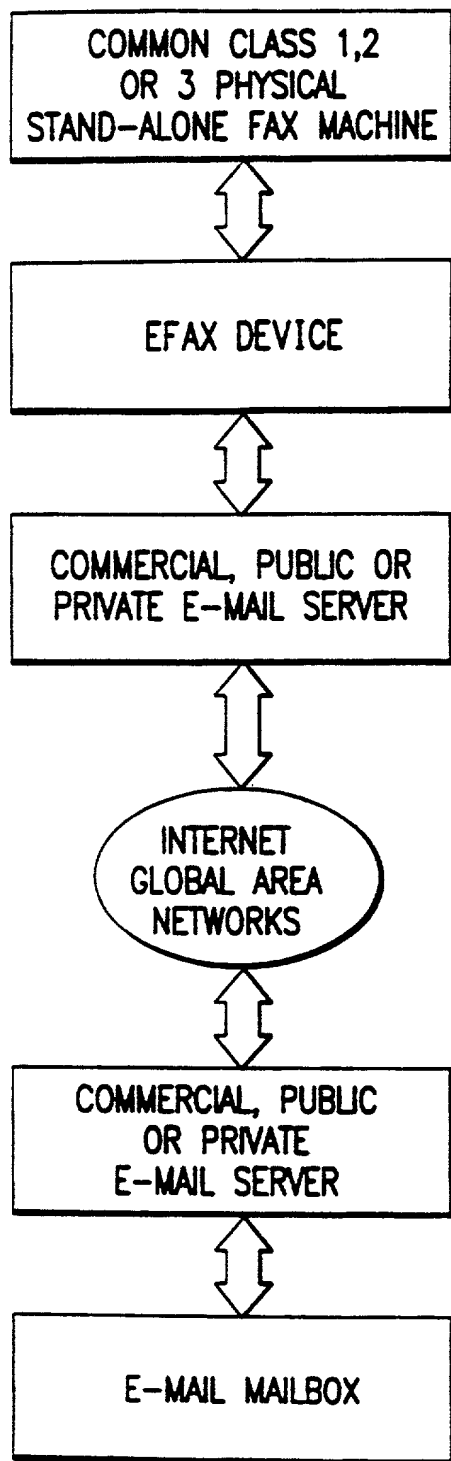


FIG. 7

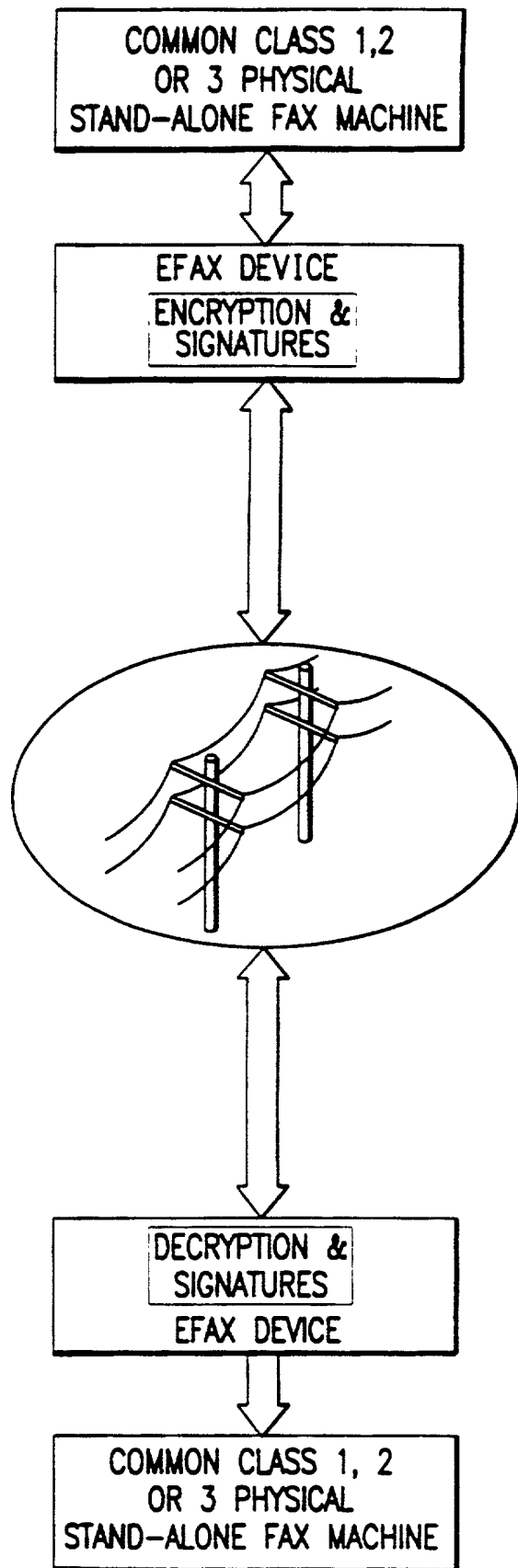


FIG. 8

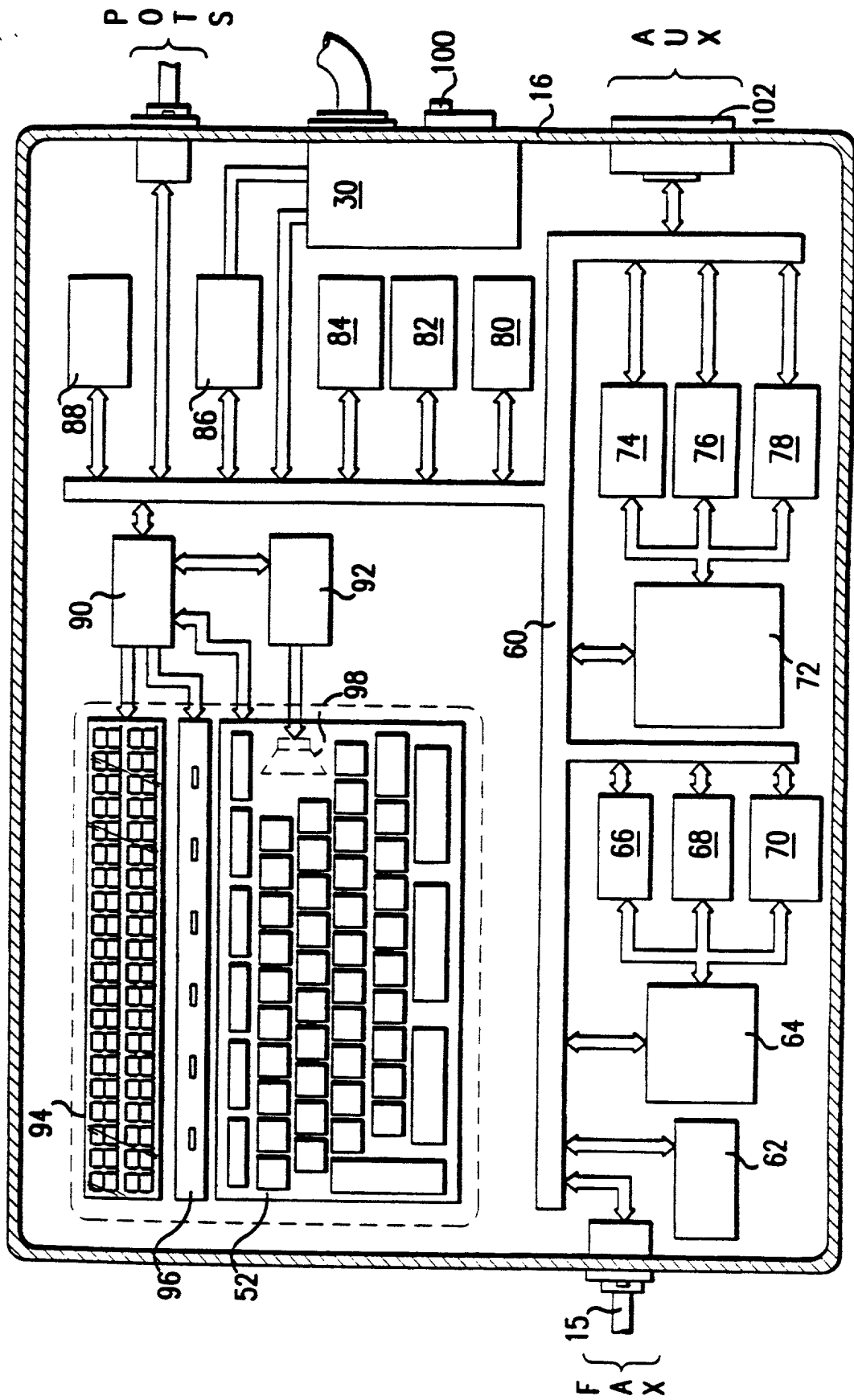
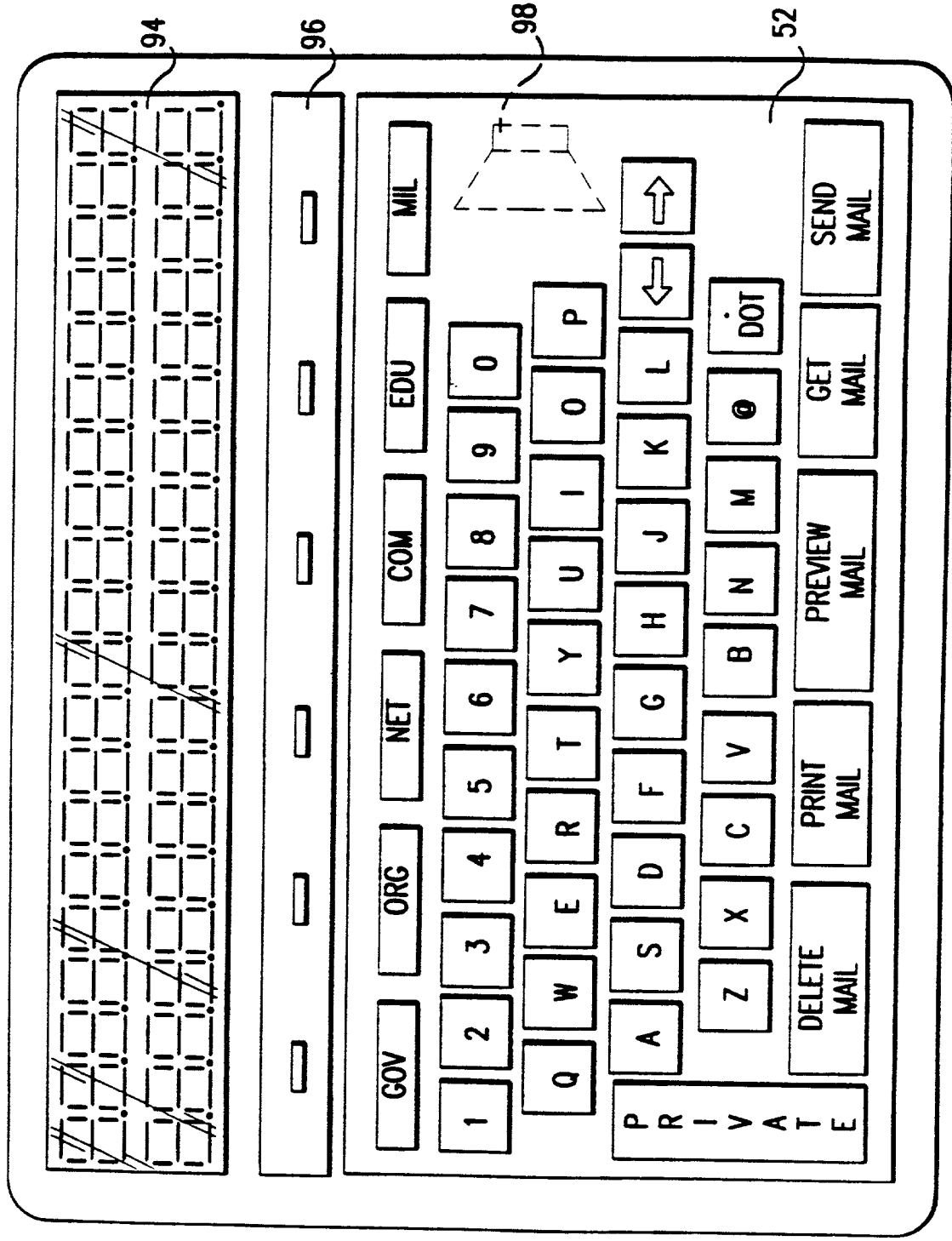


FIG. 9





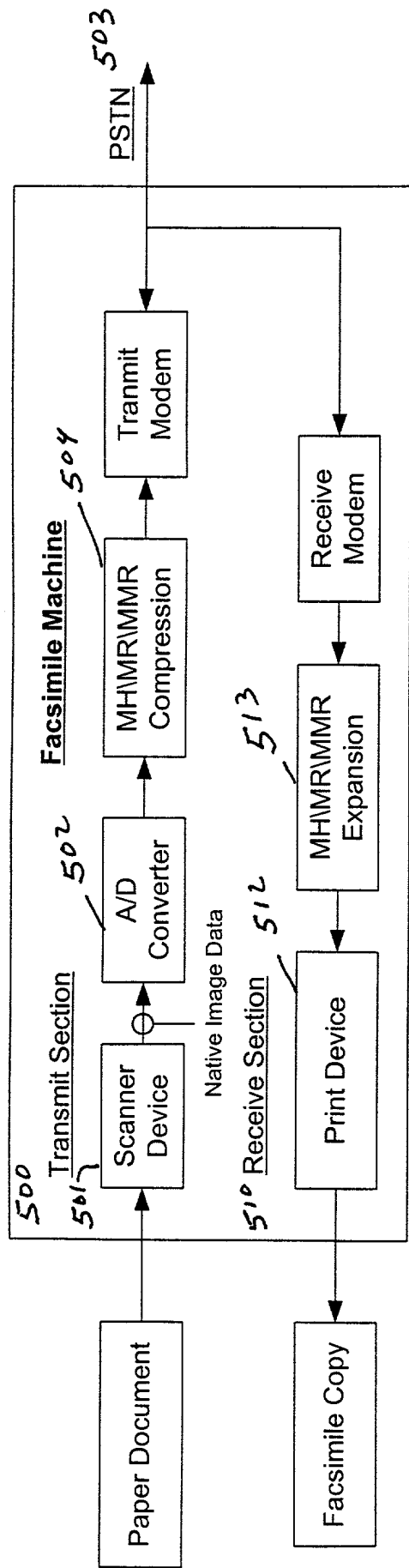


Figure 11

Figure 12

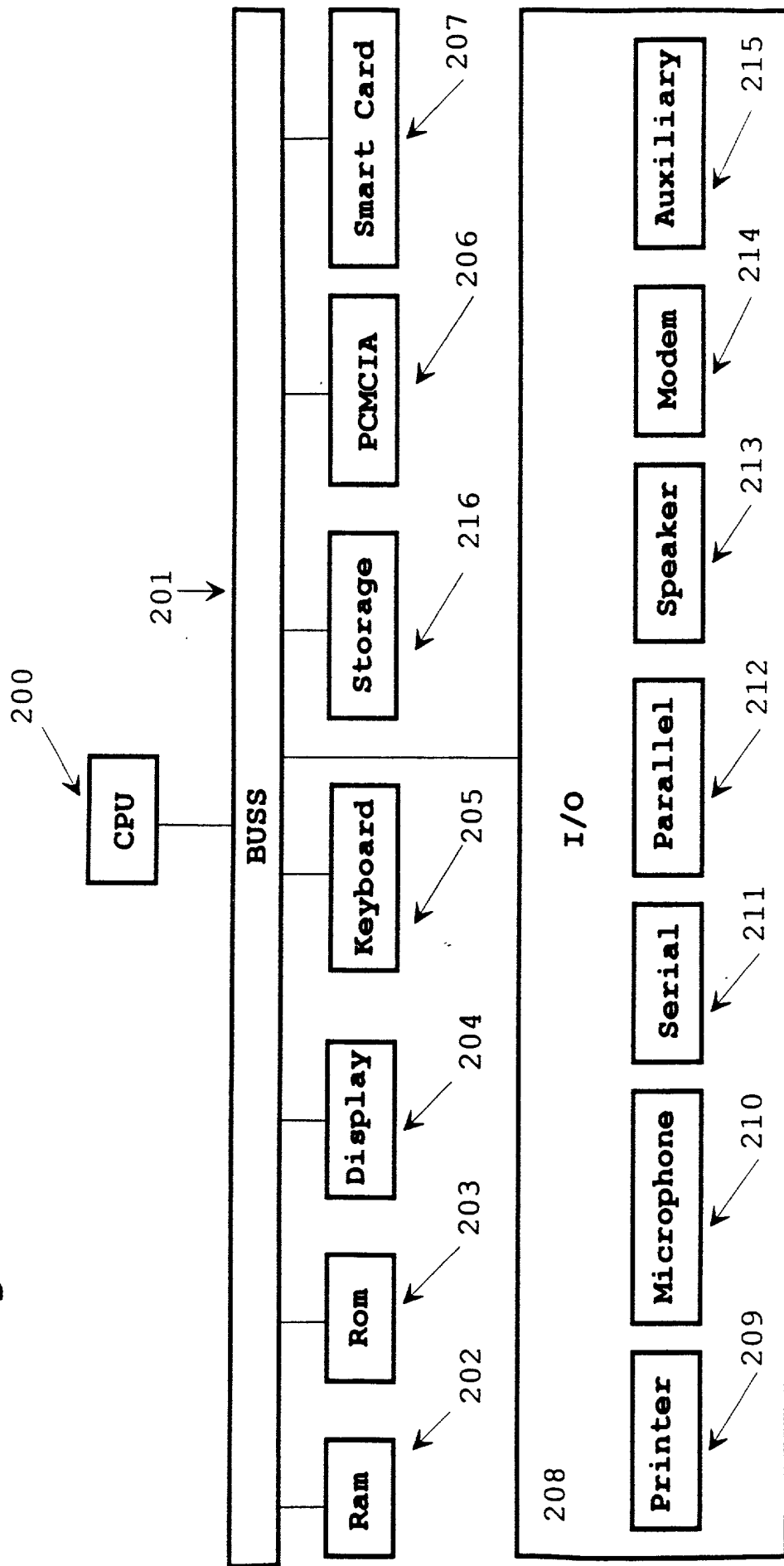


Figure 13

TOP SECRET

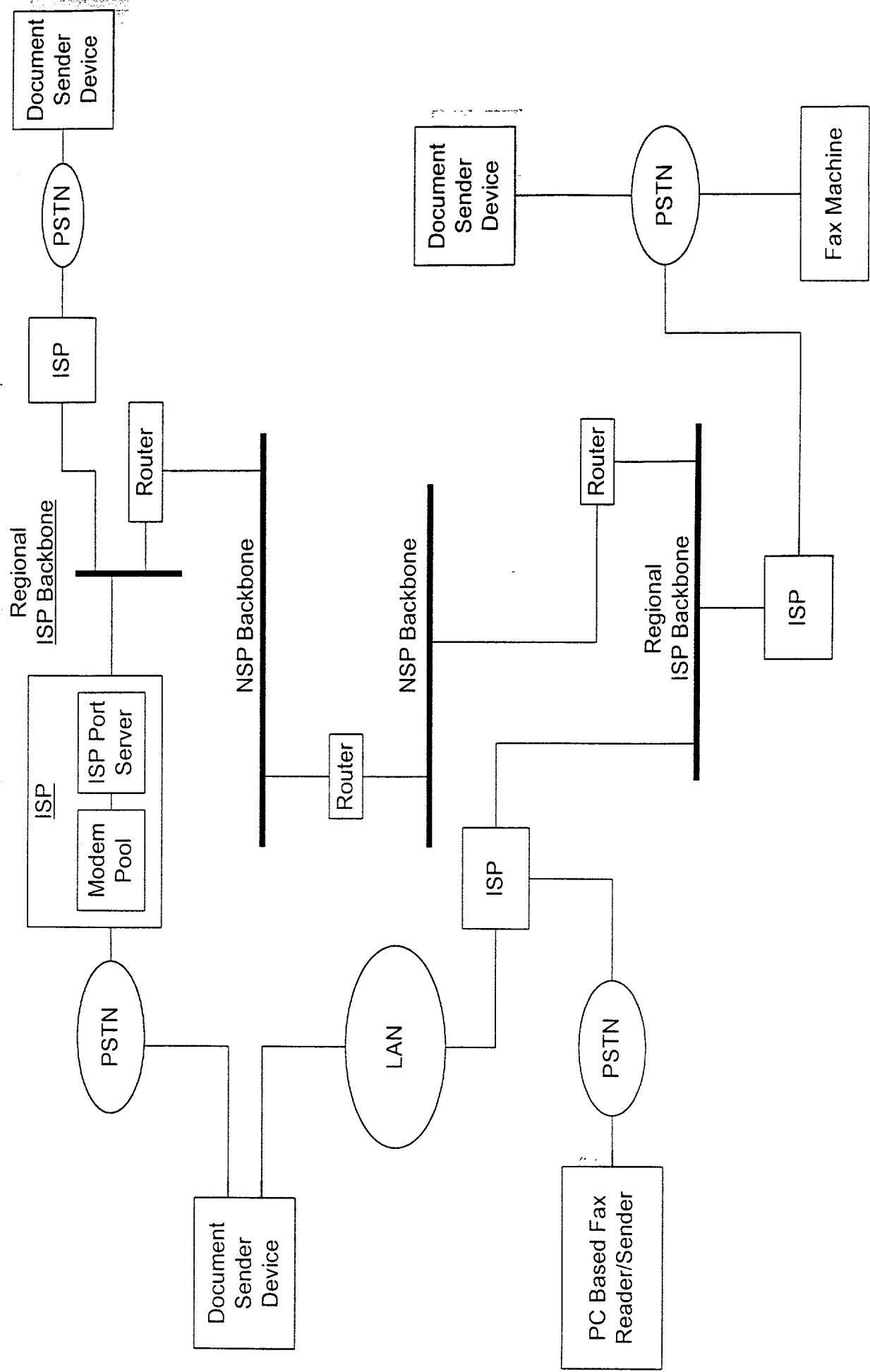


Figure 14

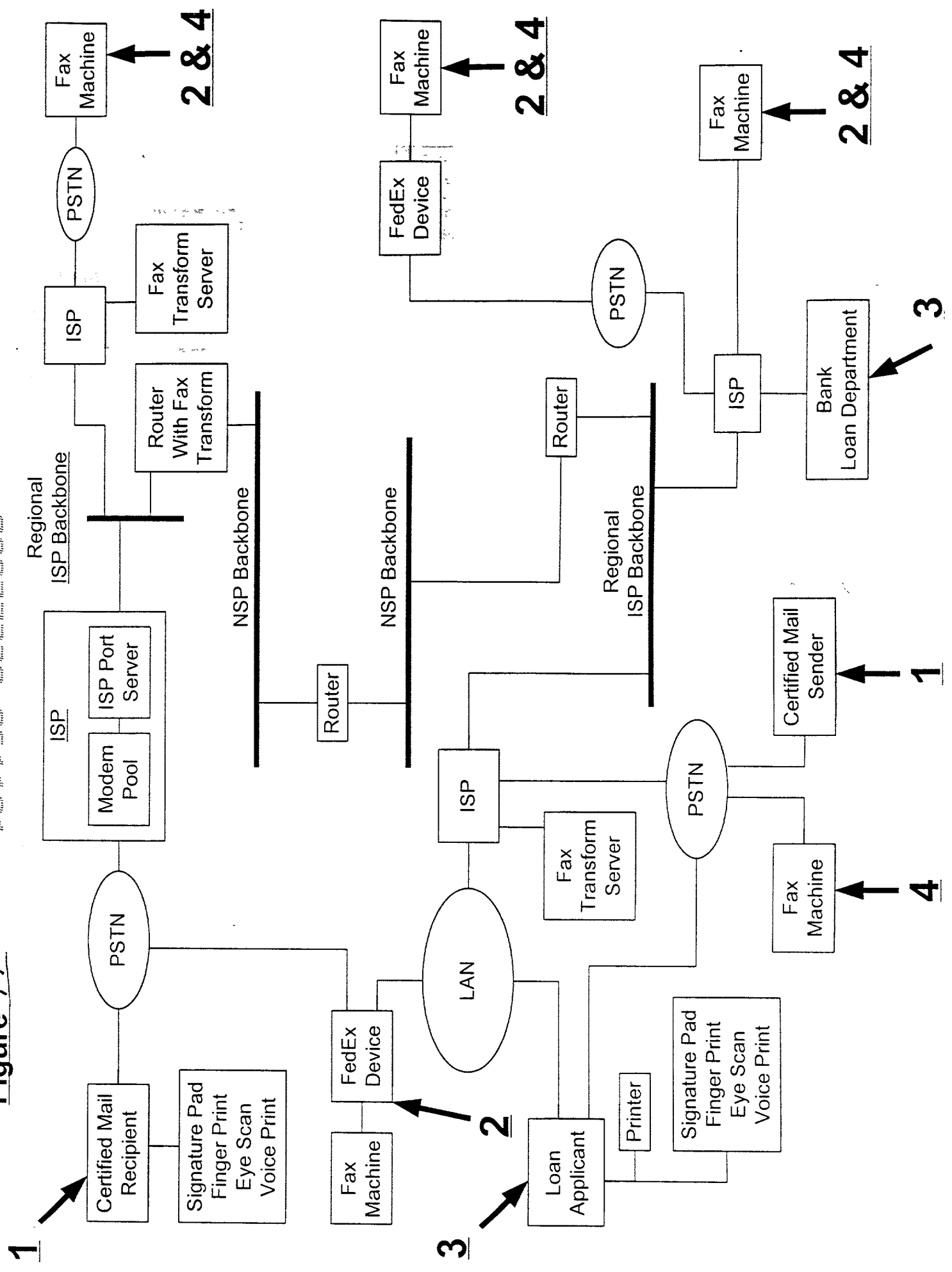
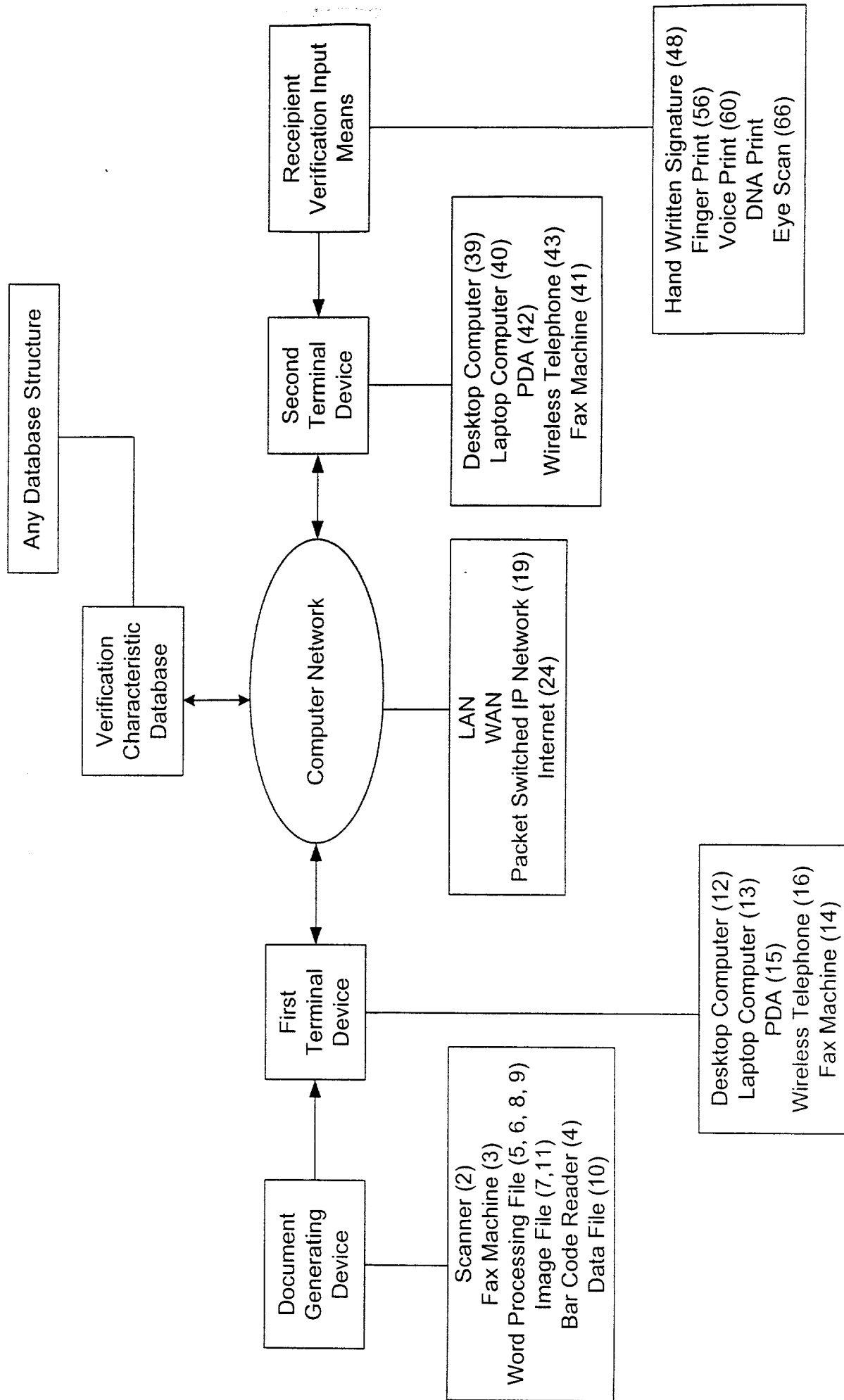


Figure 15



[illegible]

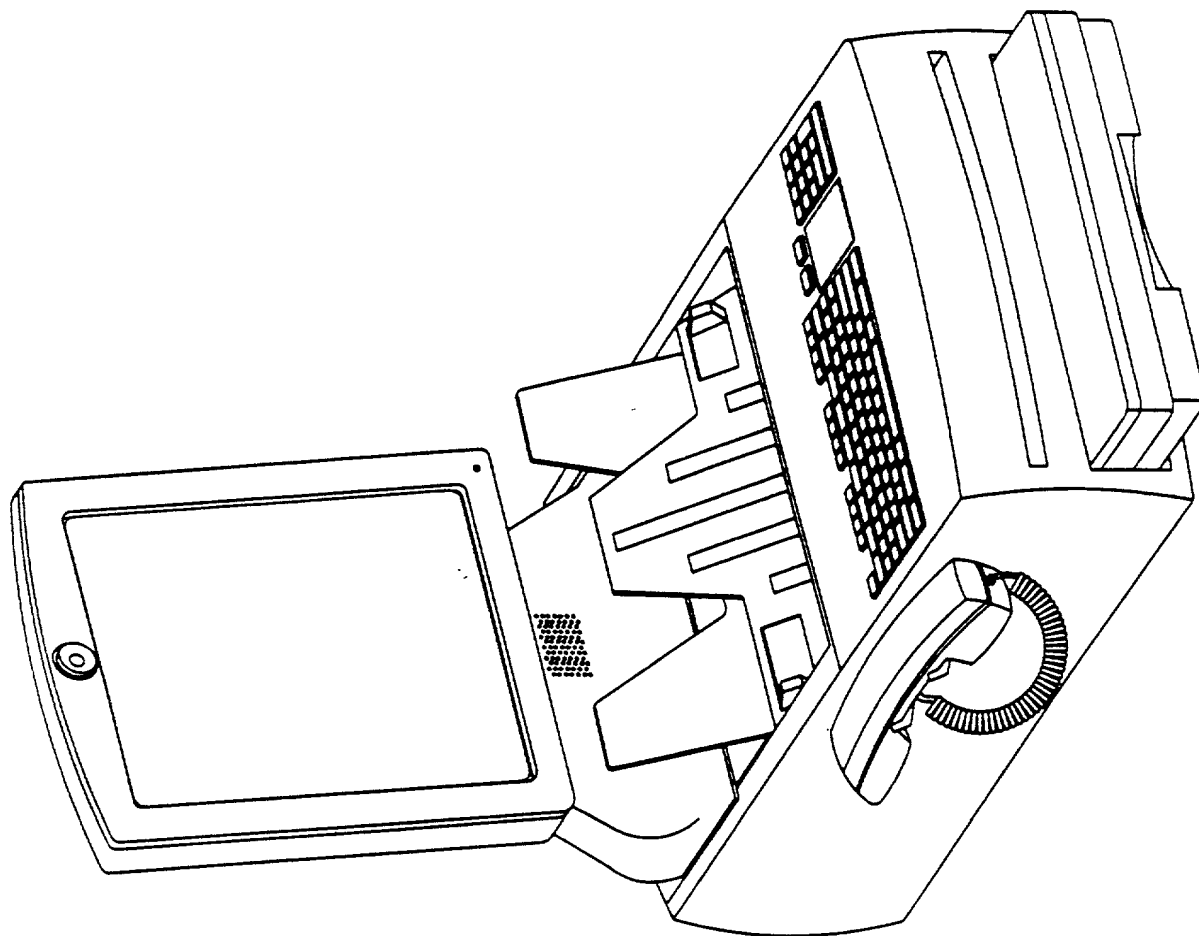


Figure 17

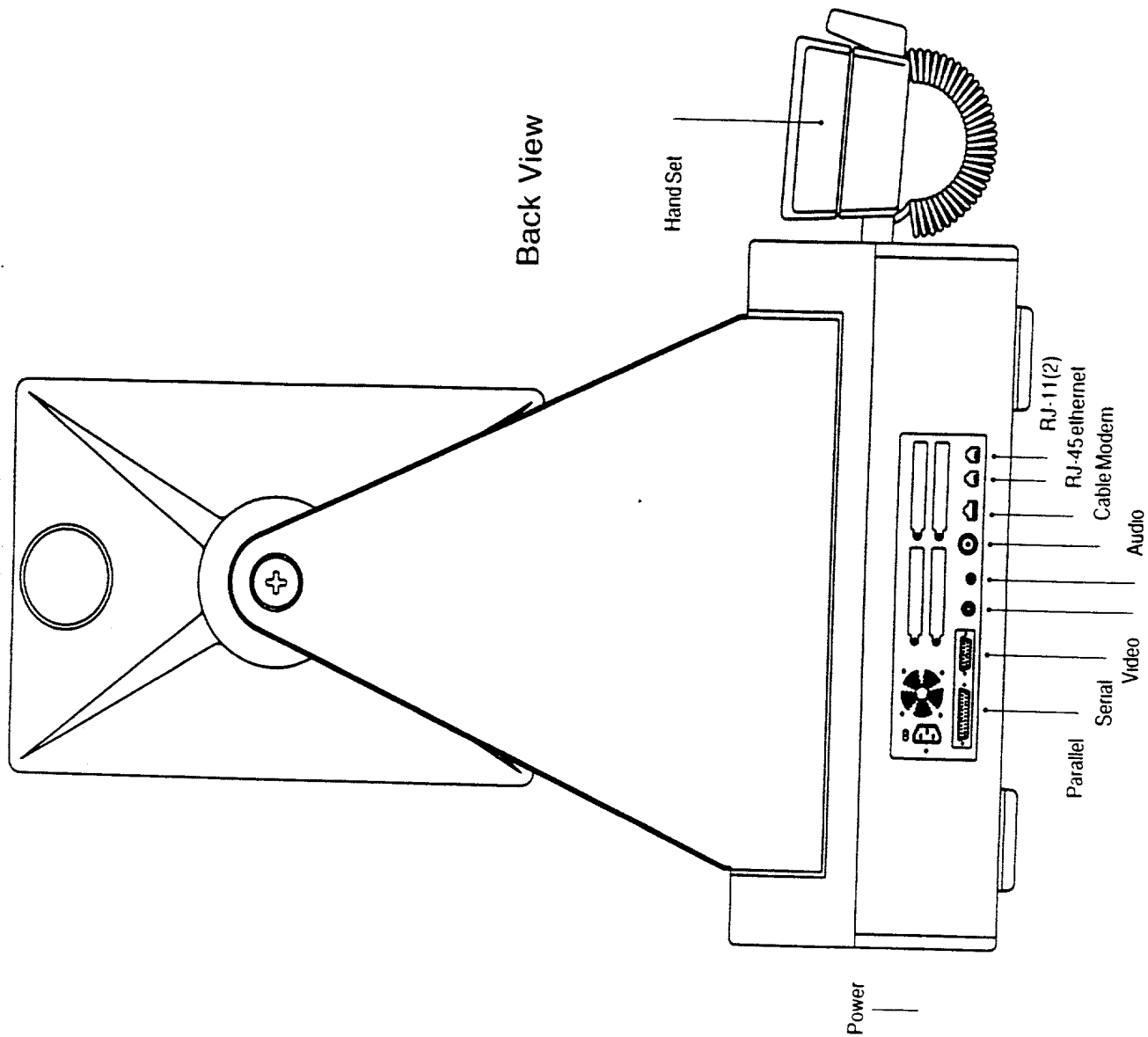


Figure 18



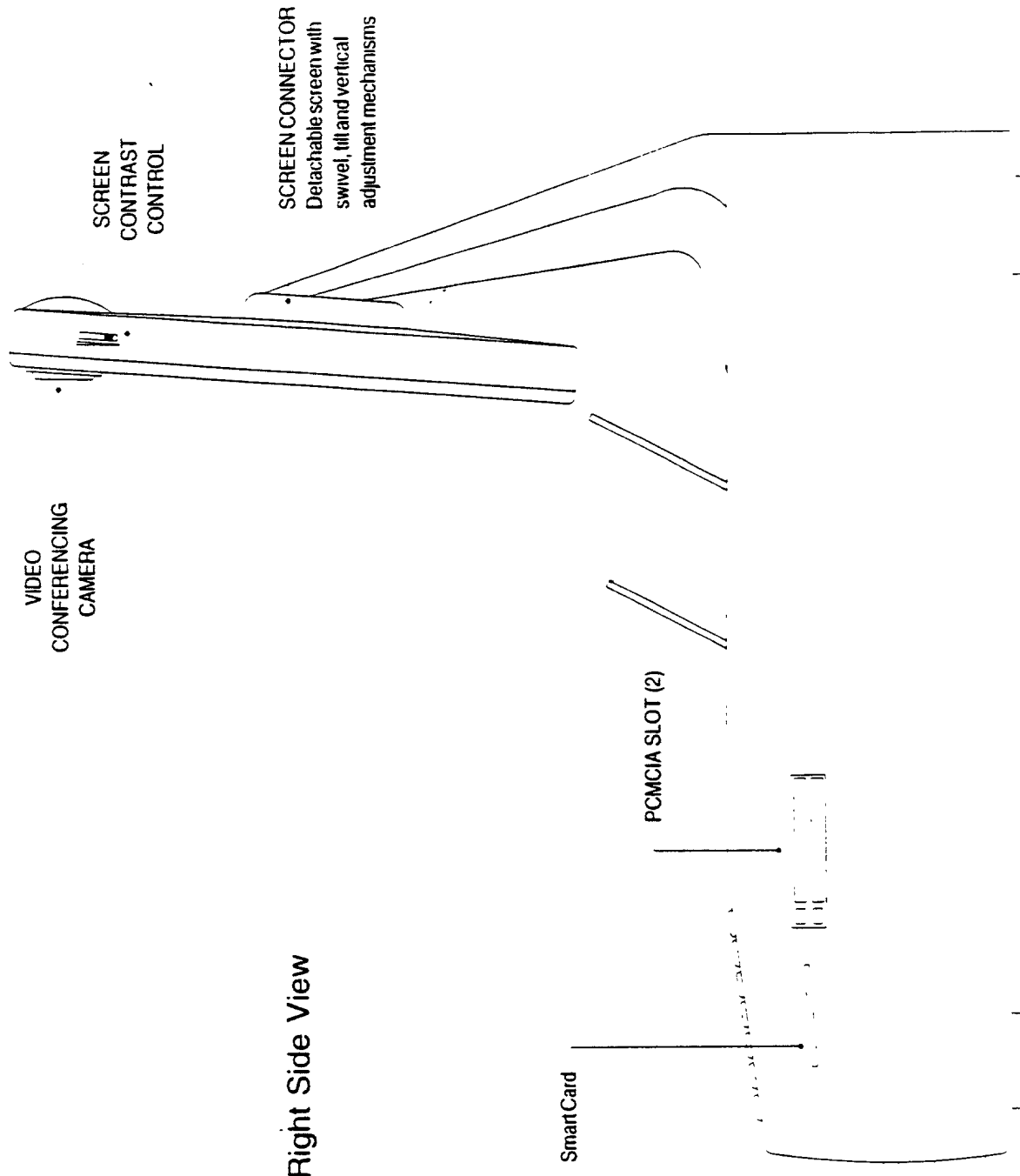


Figure 19

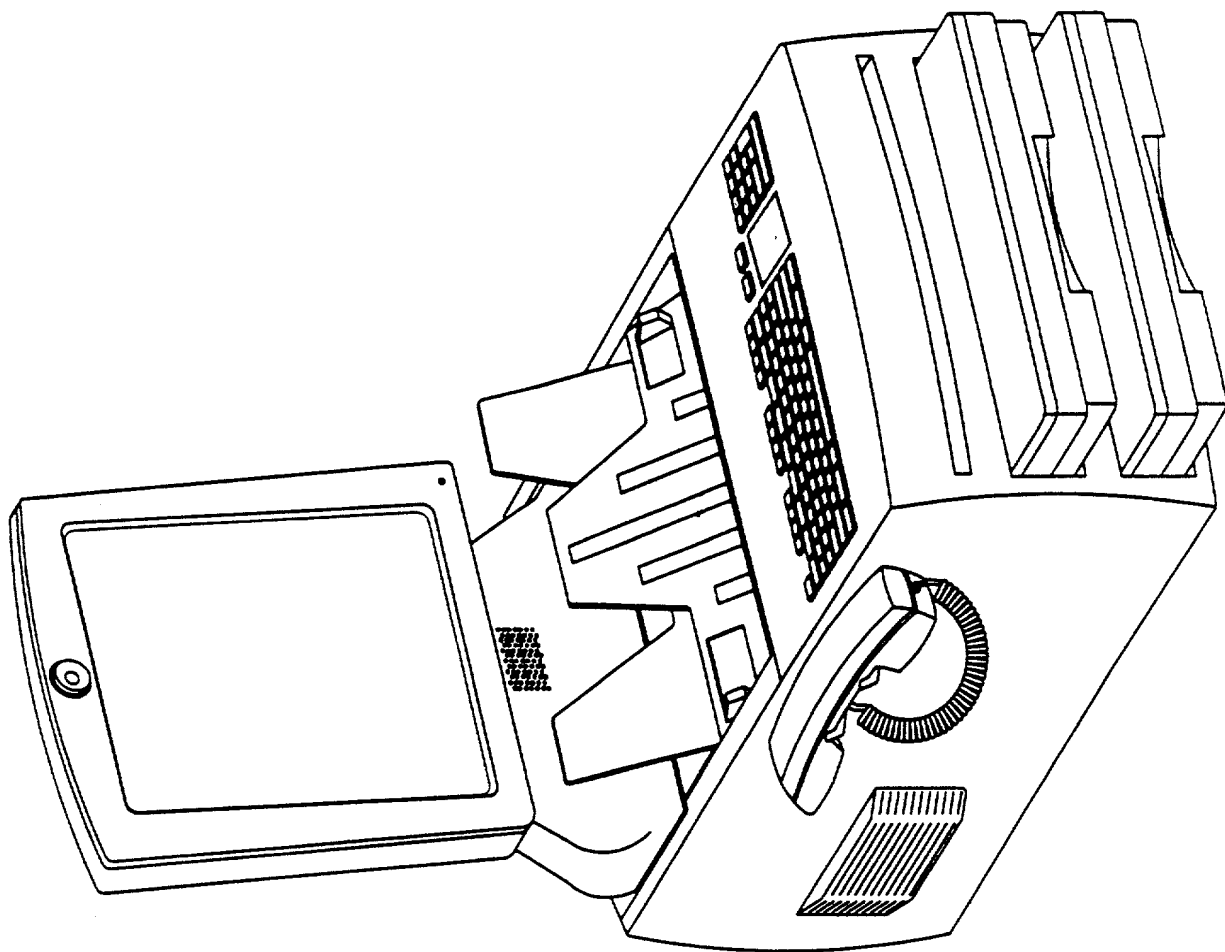


Figure 20

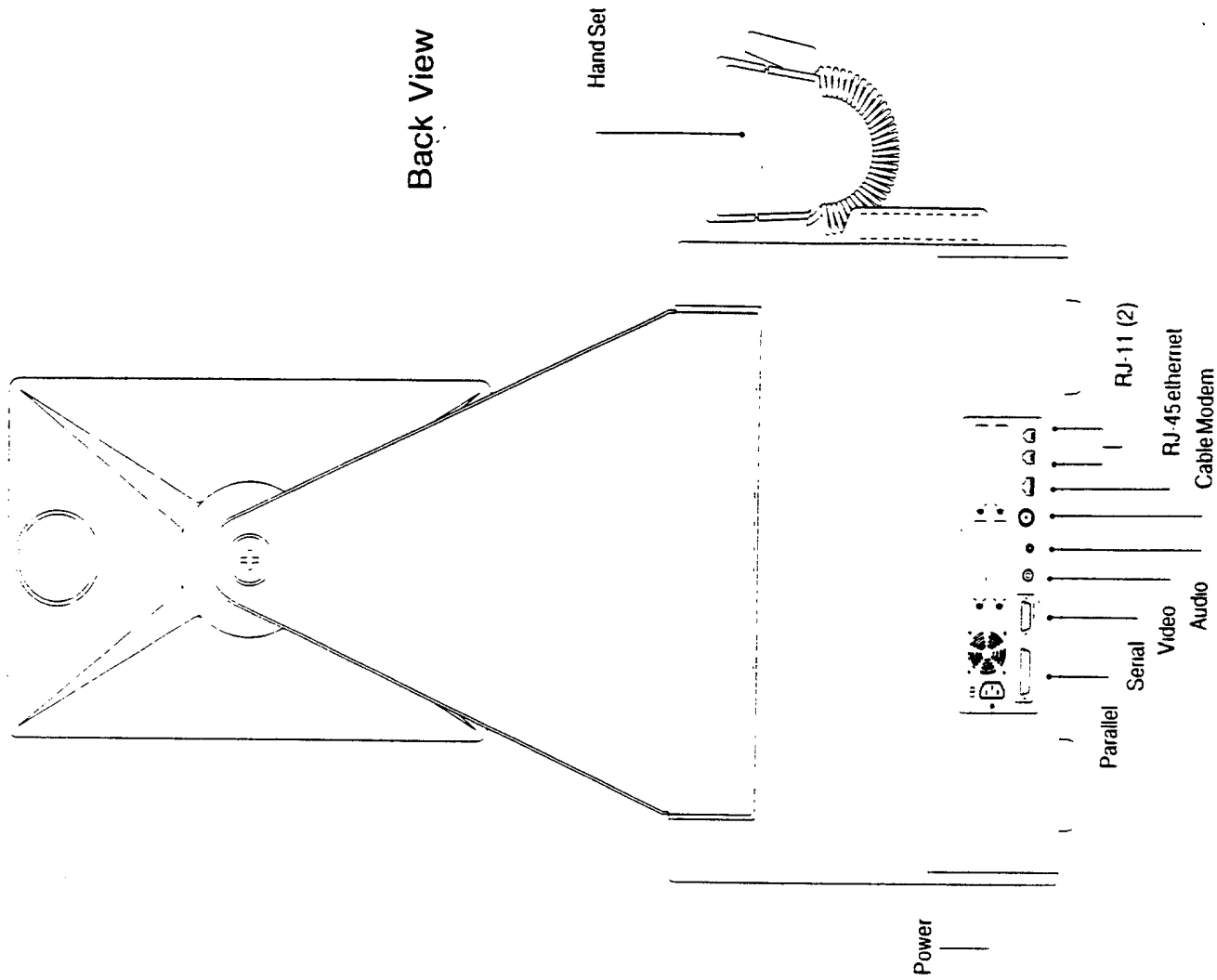


Figure 21

# **e-Concierge'.MFD** Hardware Ports

Right Side View

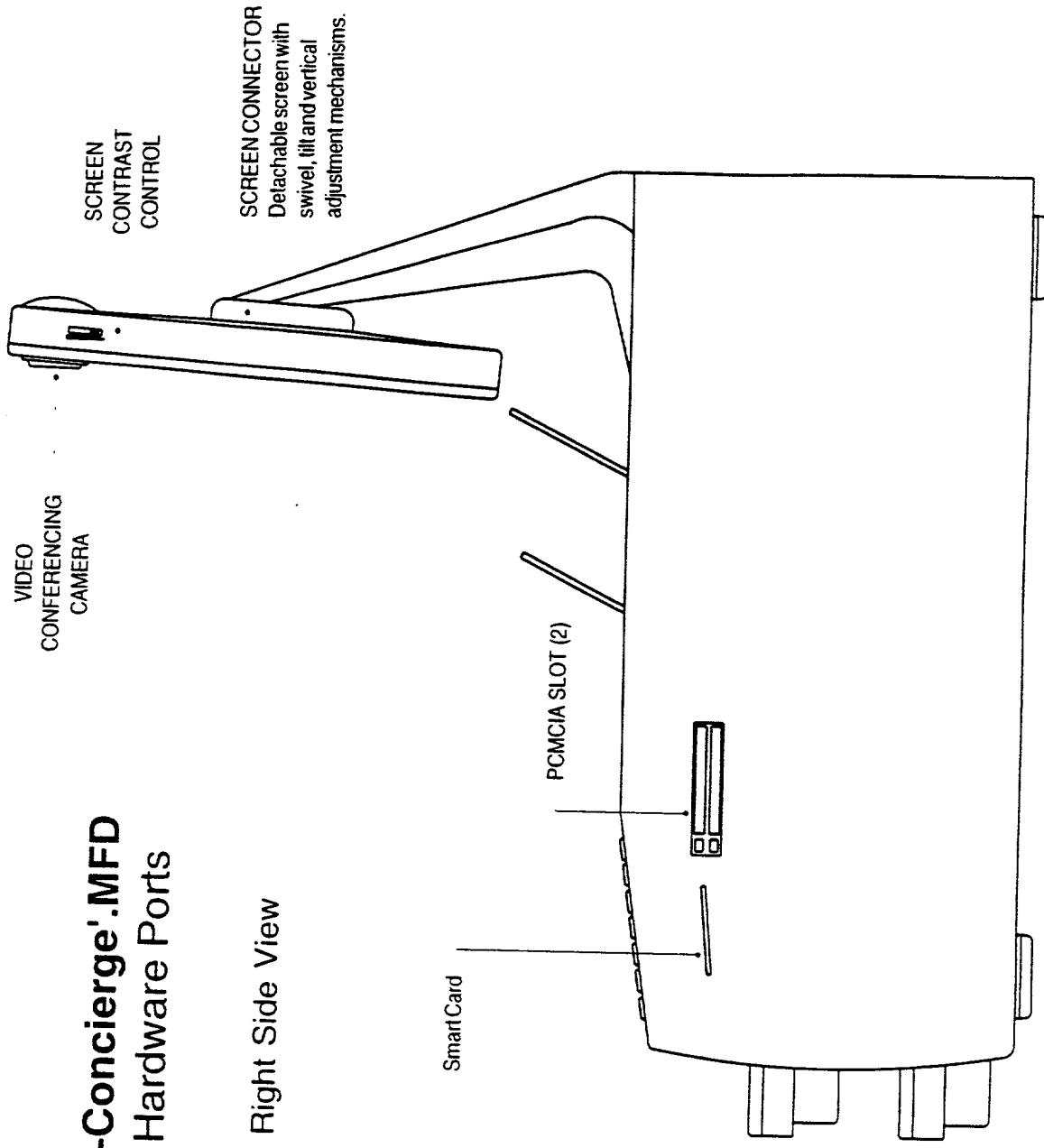


Figure 22

0987423-064101

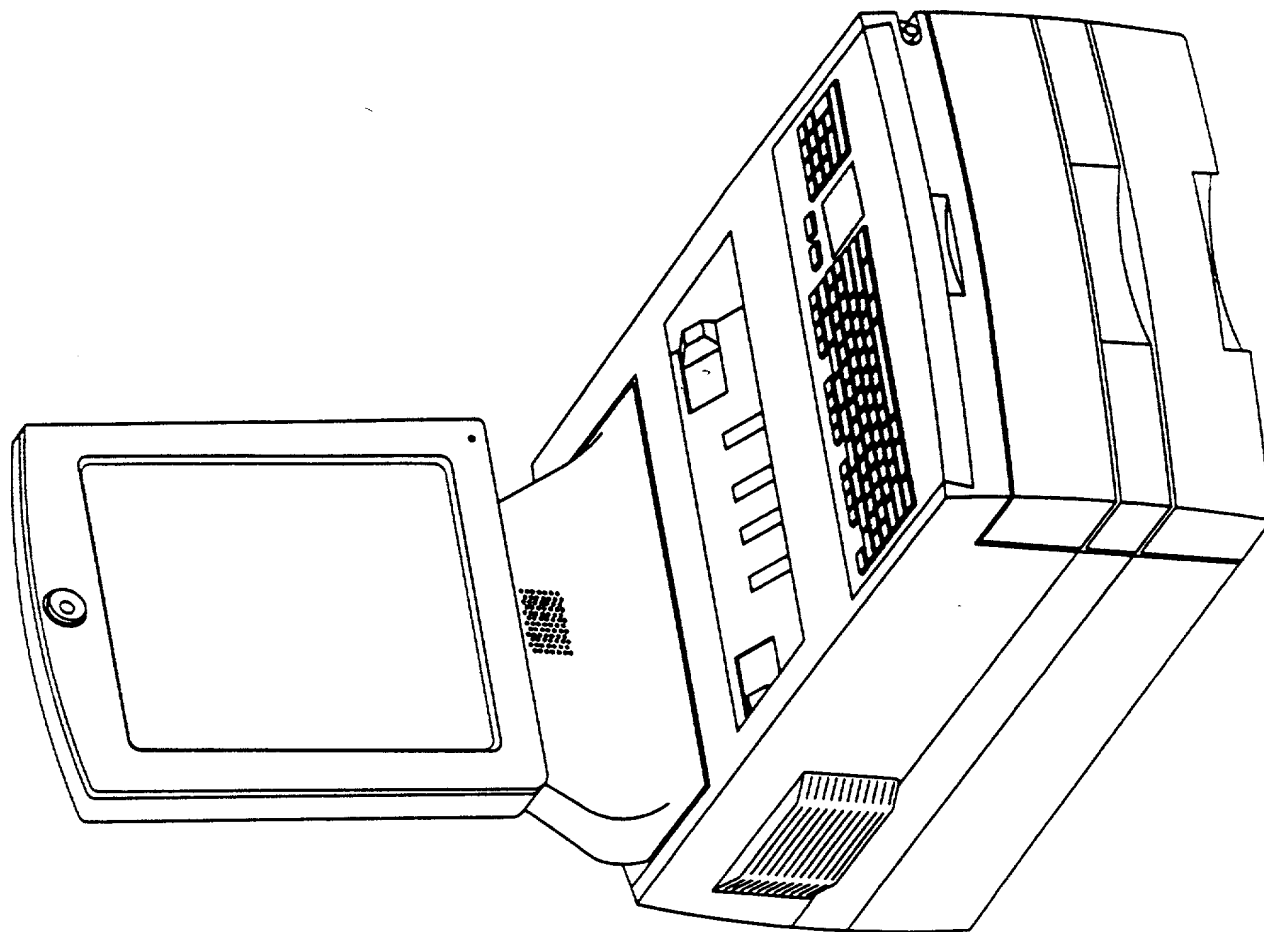


Figure 23

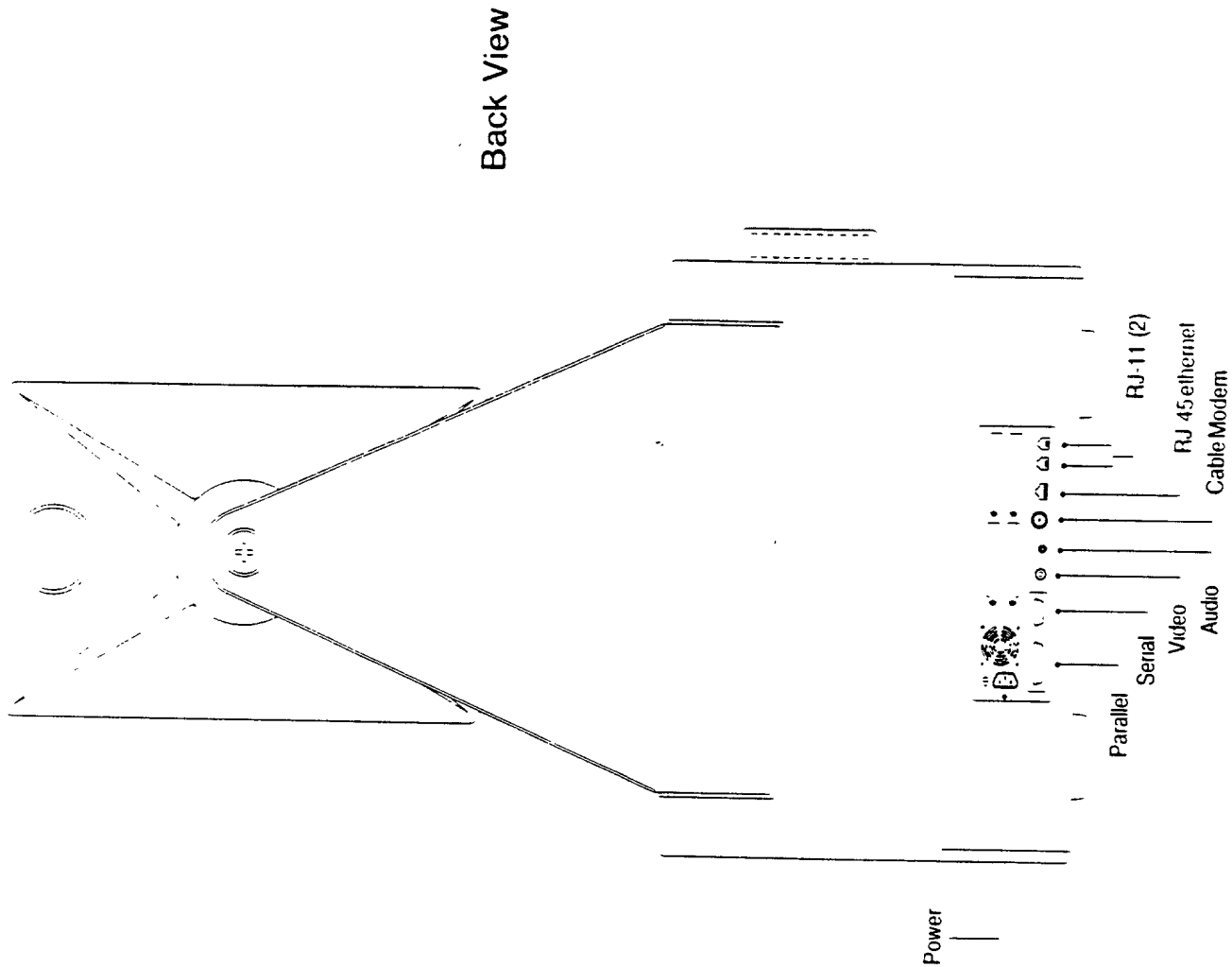


Figure 24

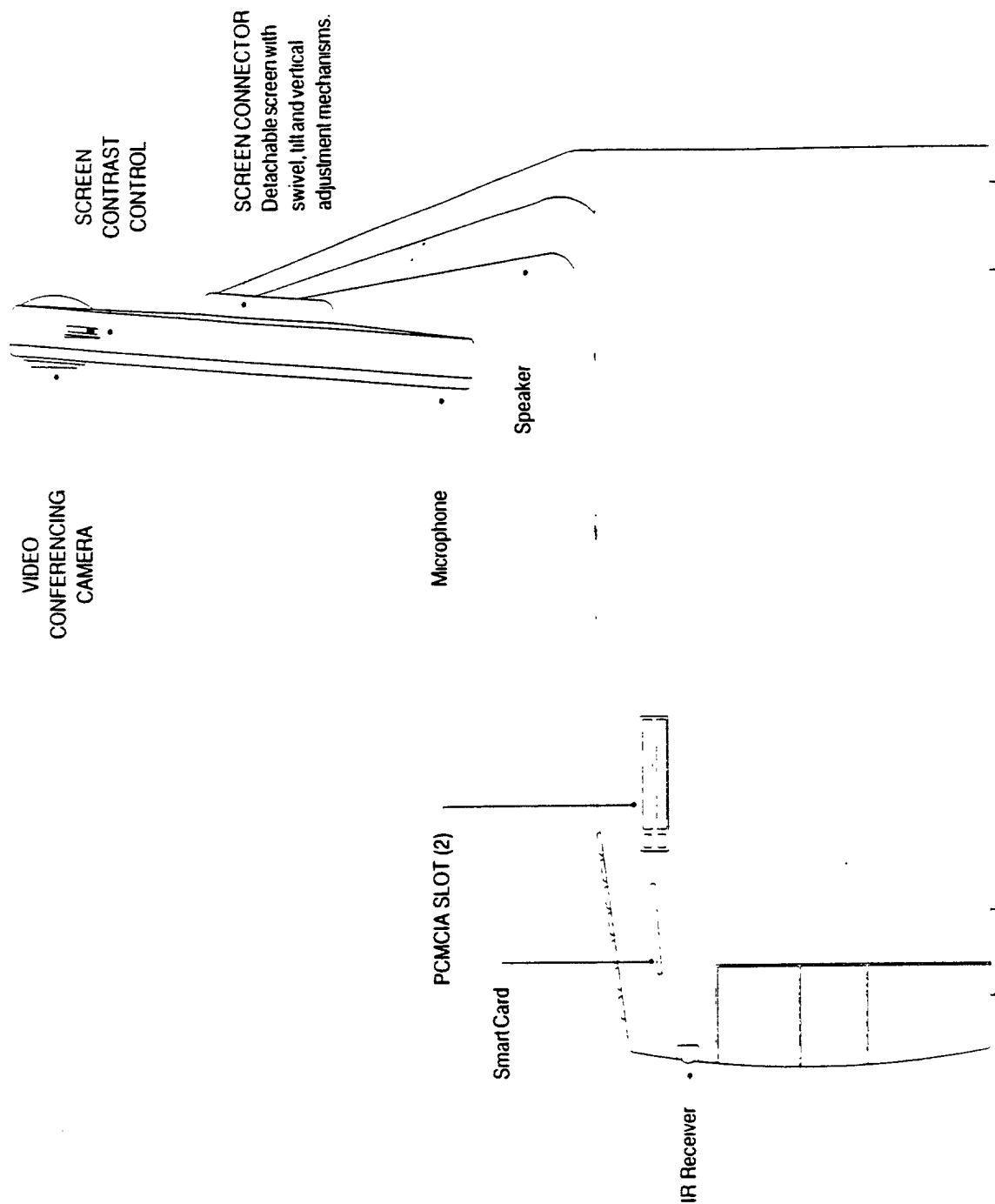


Figure 25

09877238-064104  
TOT 90" 8824860

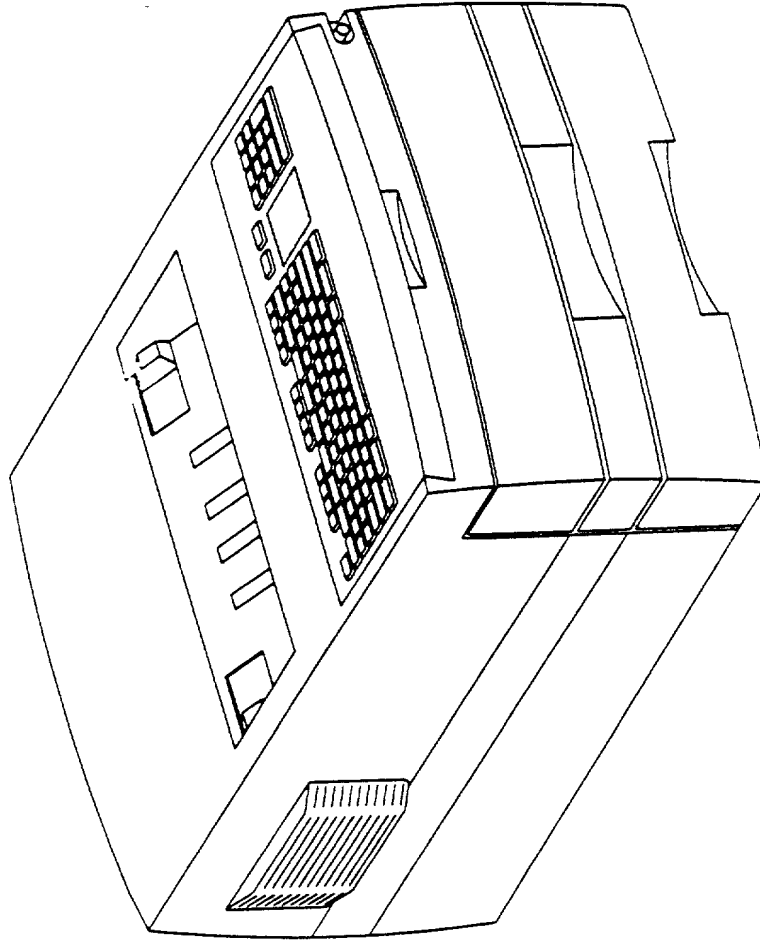


Figure 26



09877239-06101

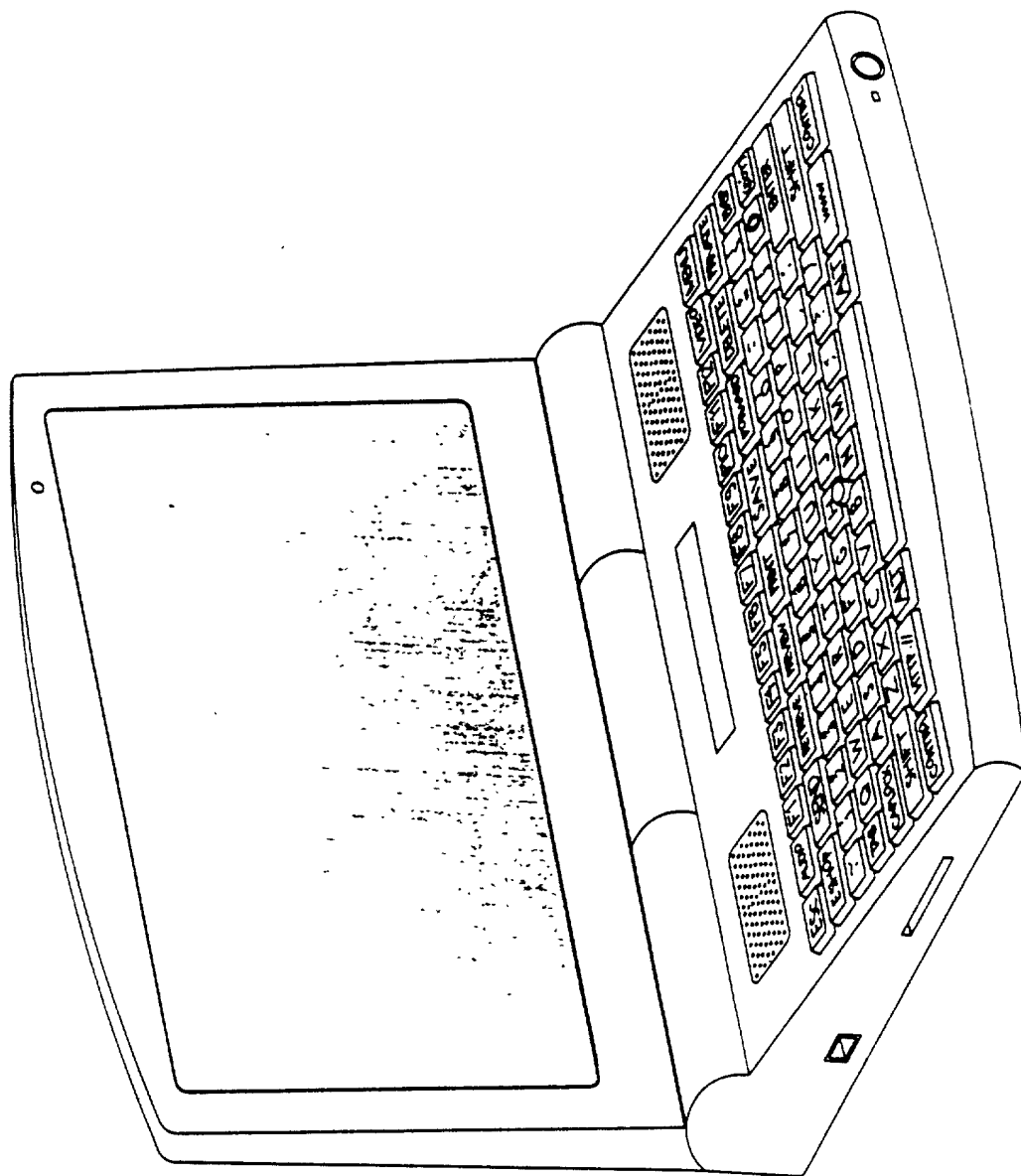
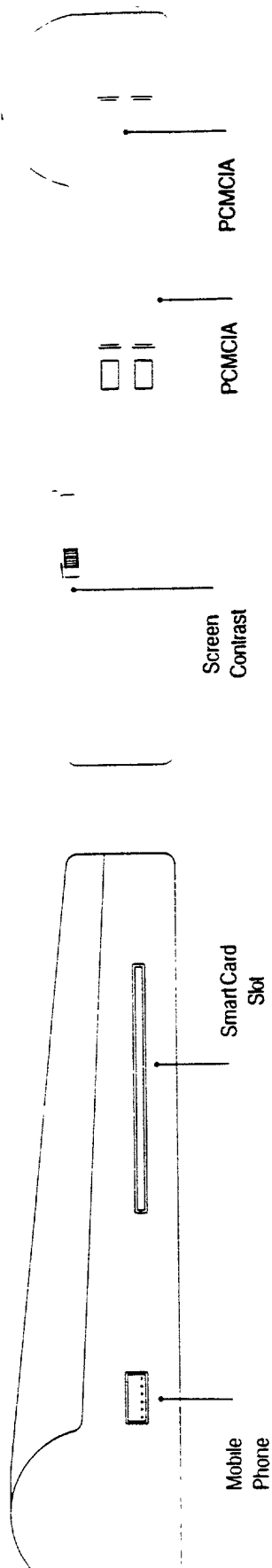


Figure 27

Left Side View



Right Side View

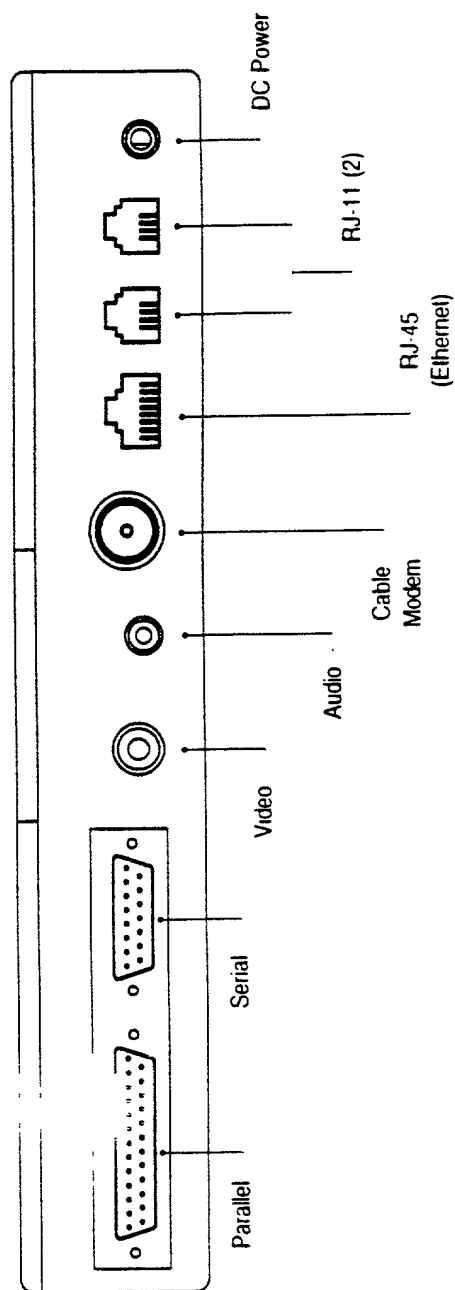


Figure 28



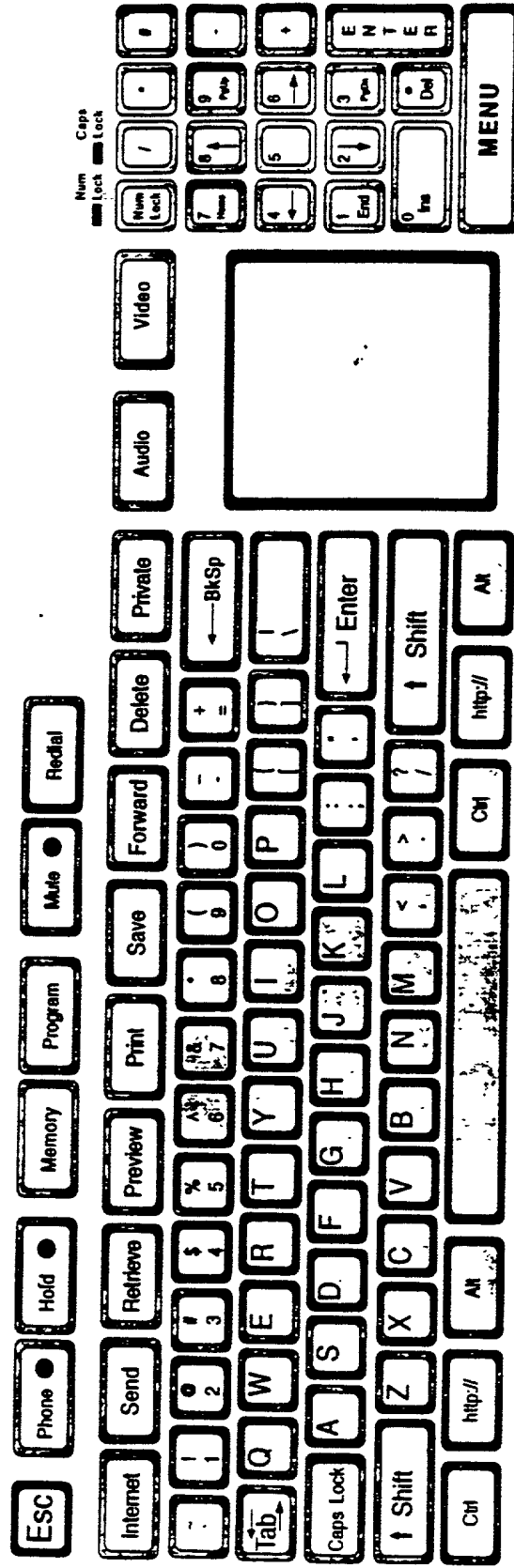


Figure 30

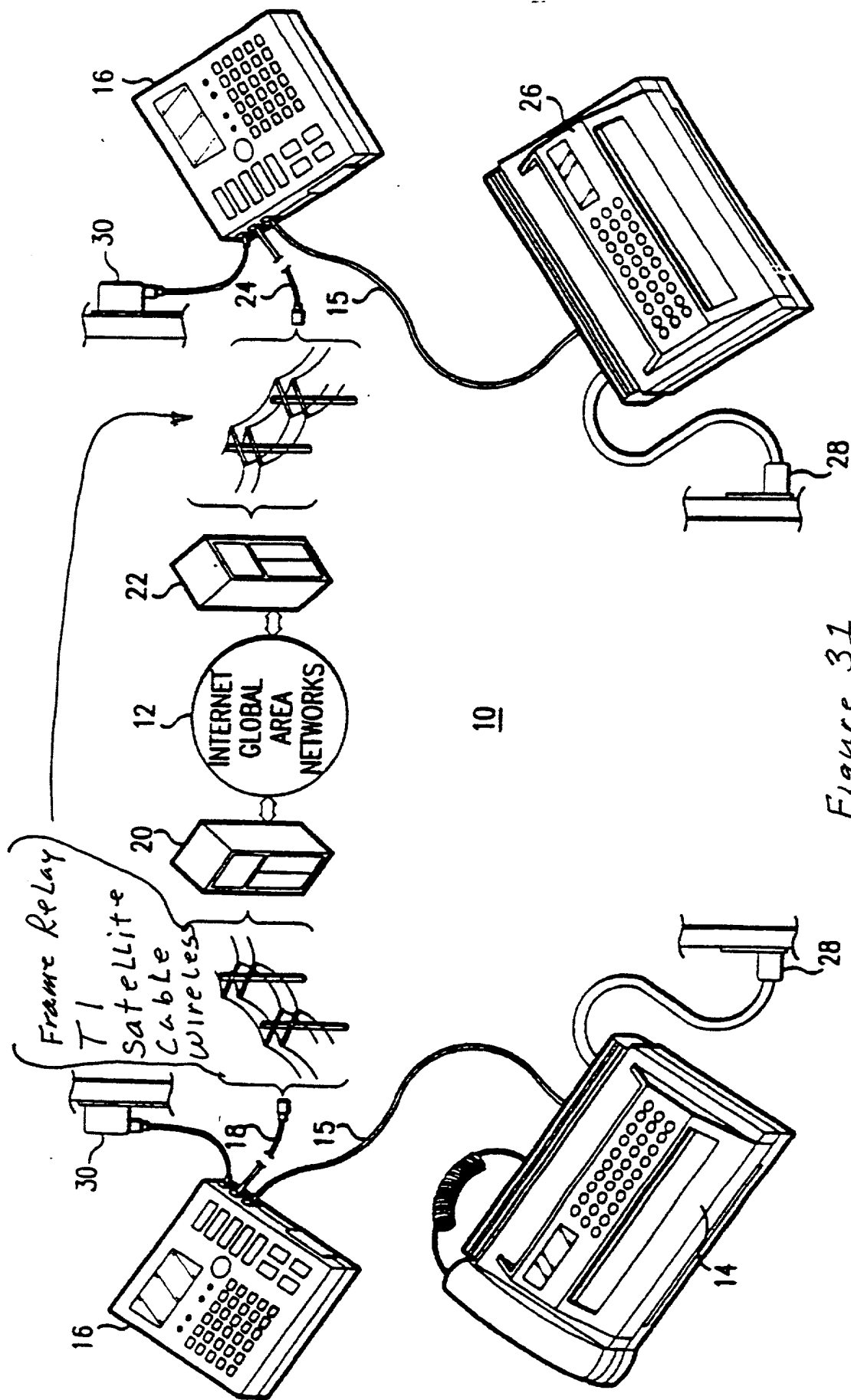


Figure 31

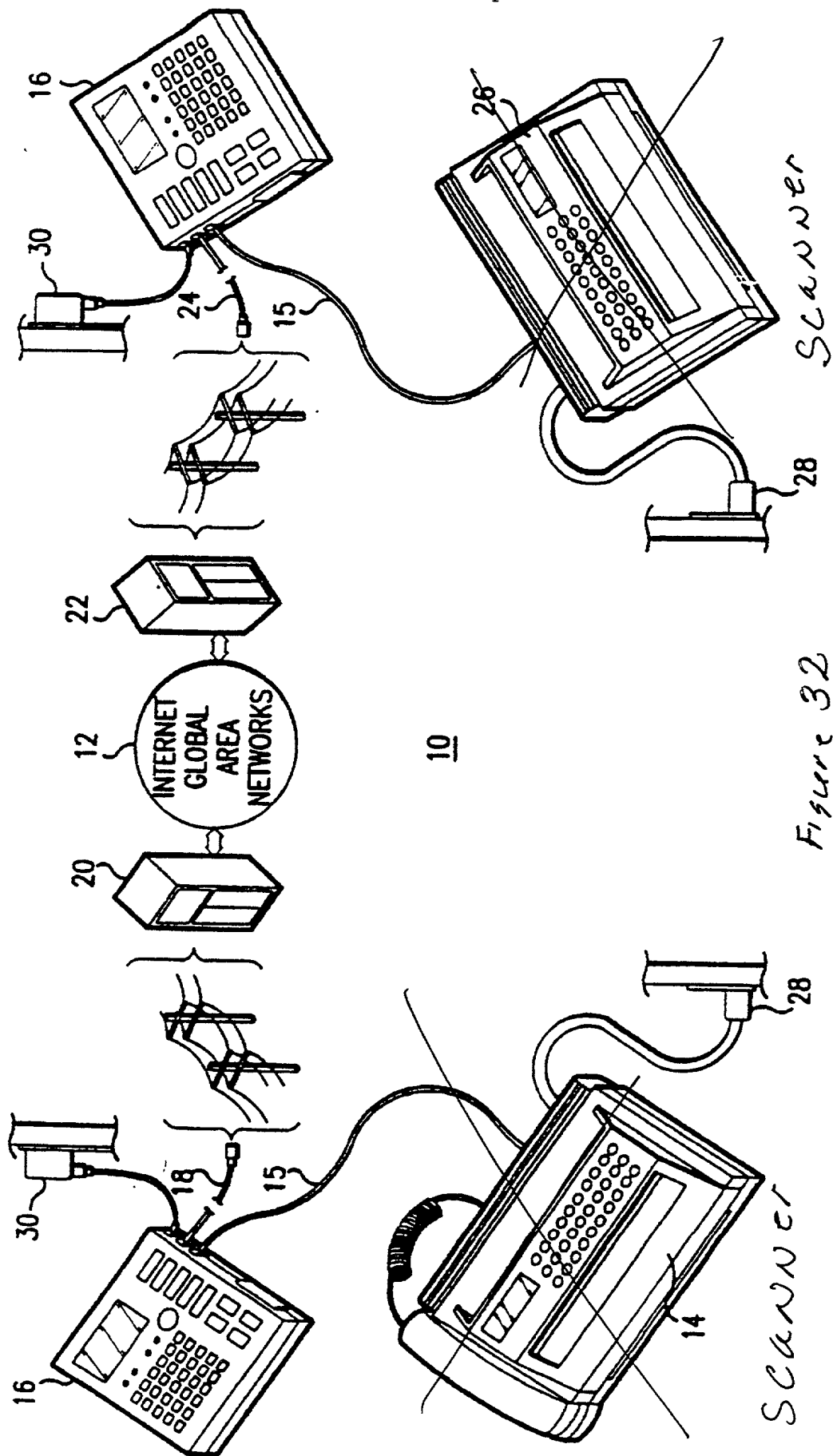


Figure 32

Integrated

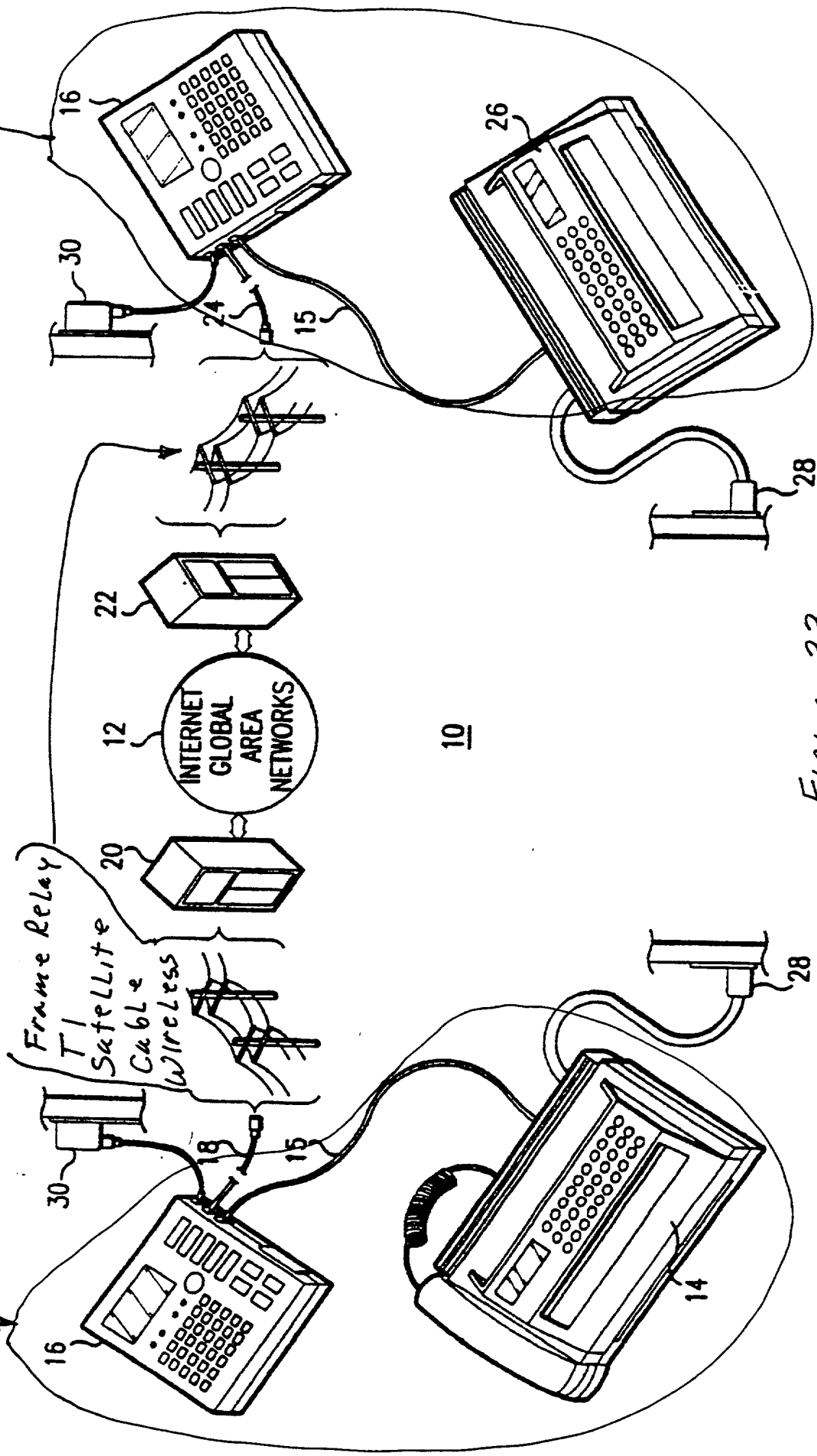


Figure 33

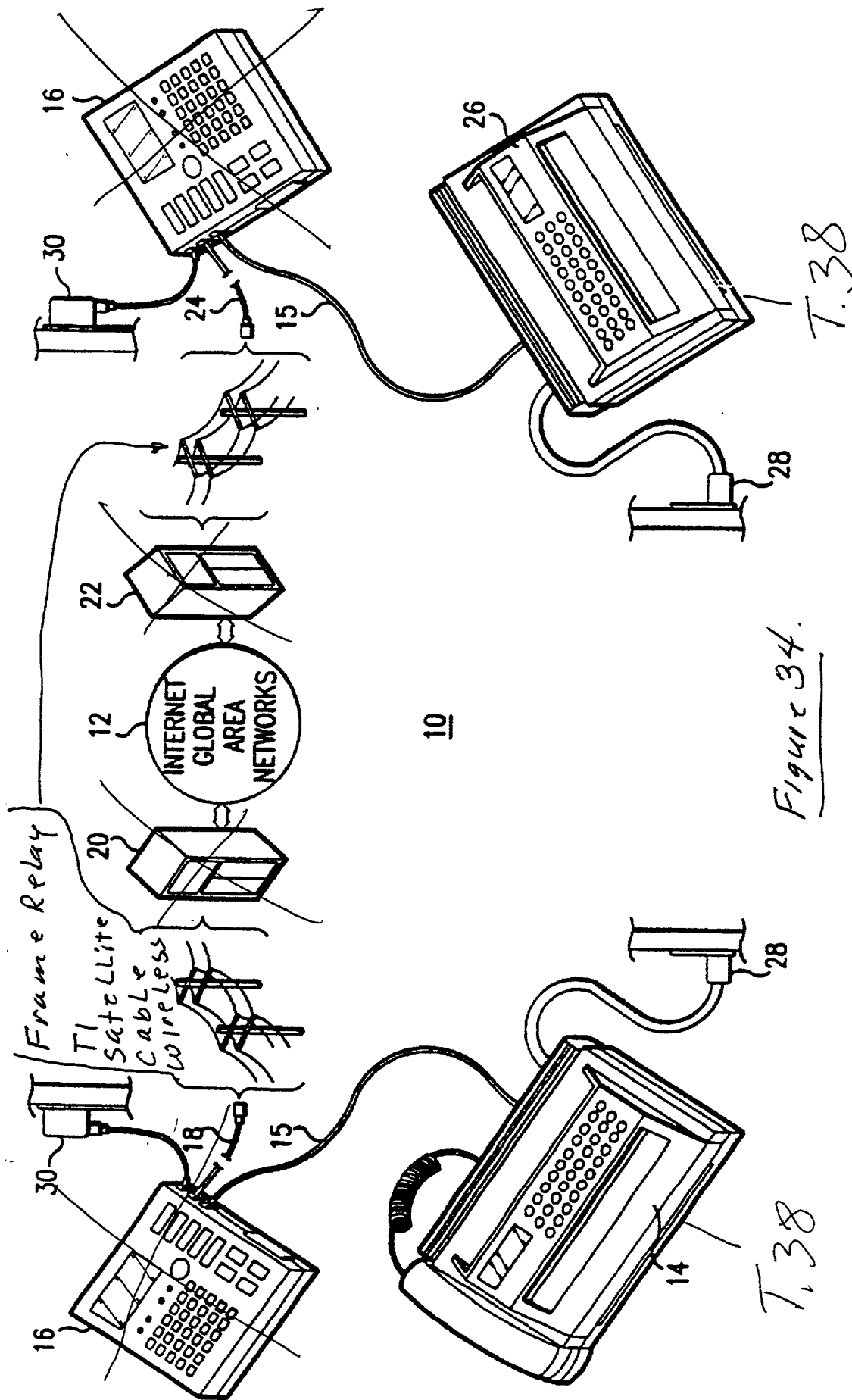




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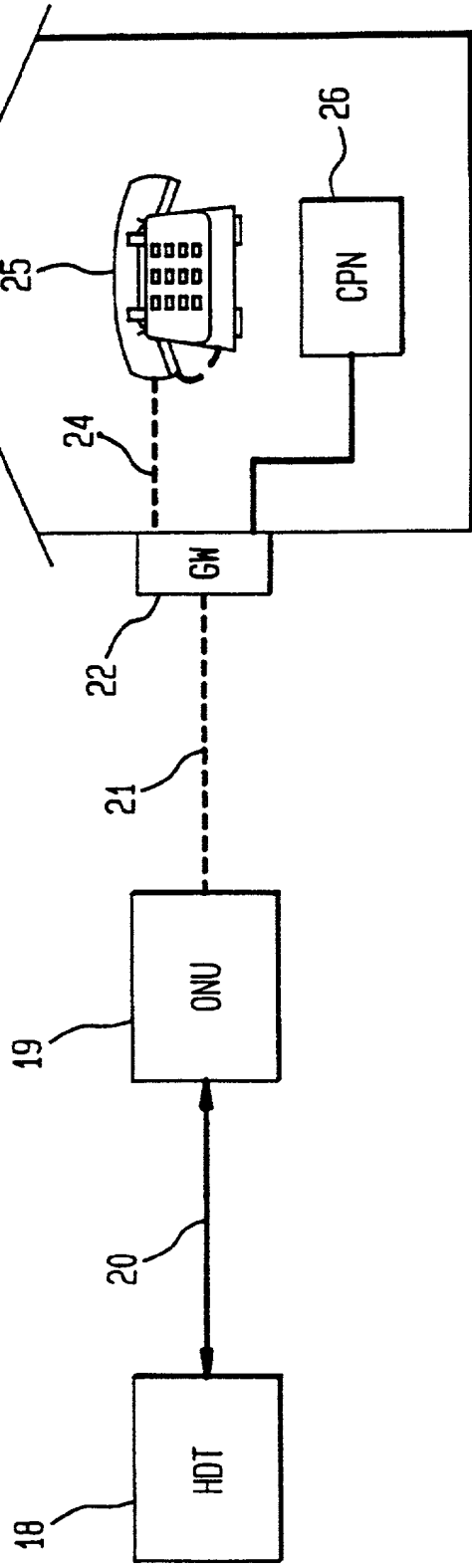


Figure 36

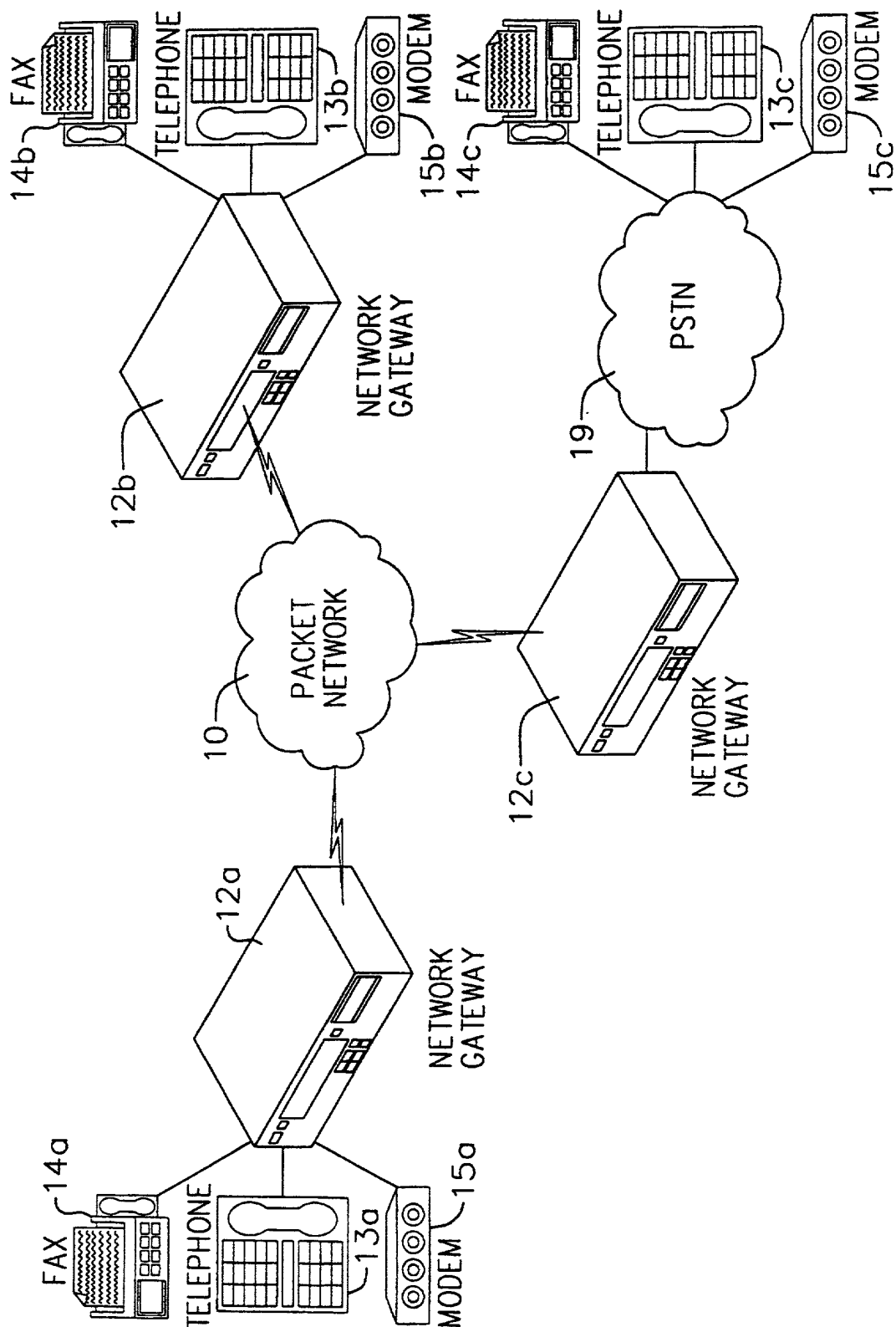


Figure 37

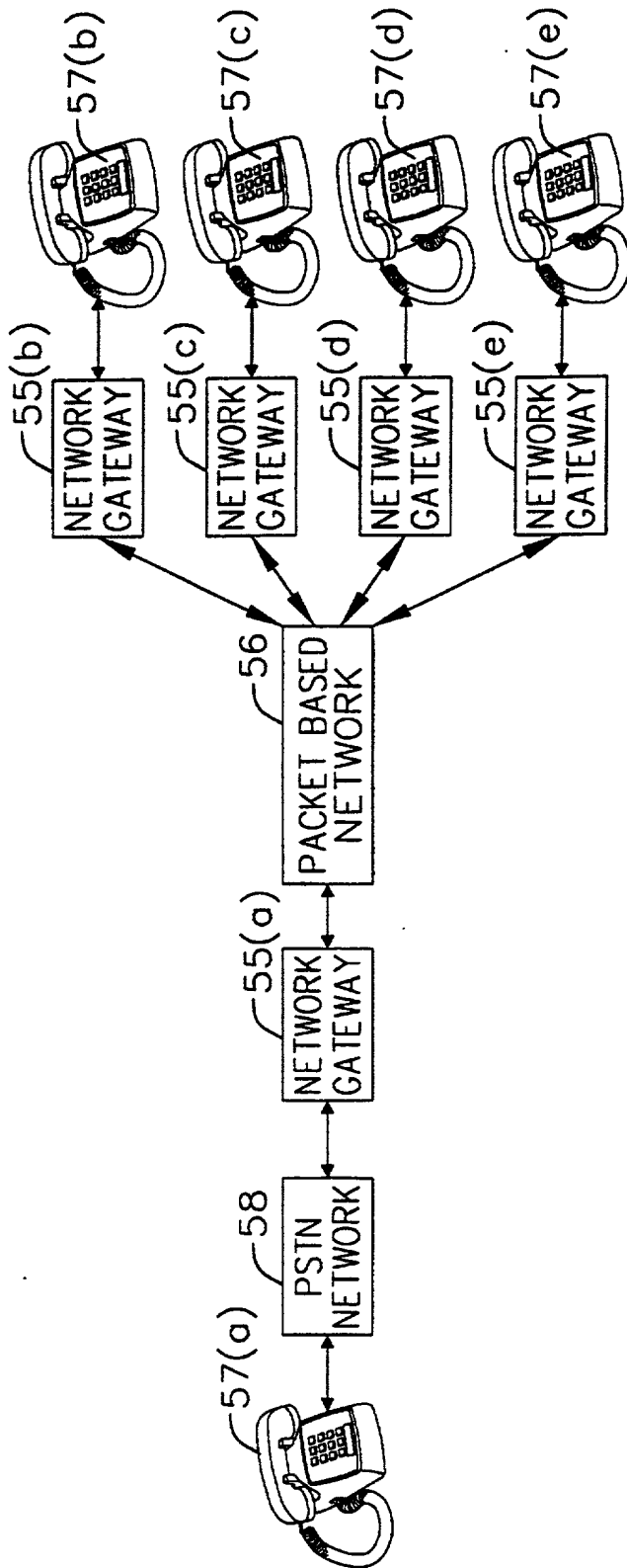


Figure 38

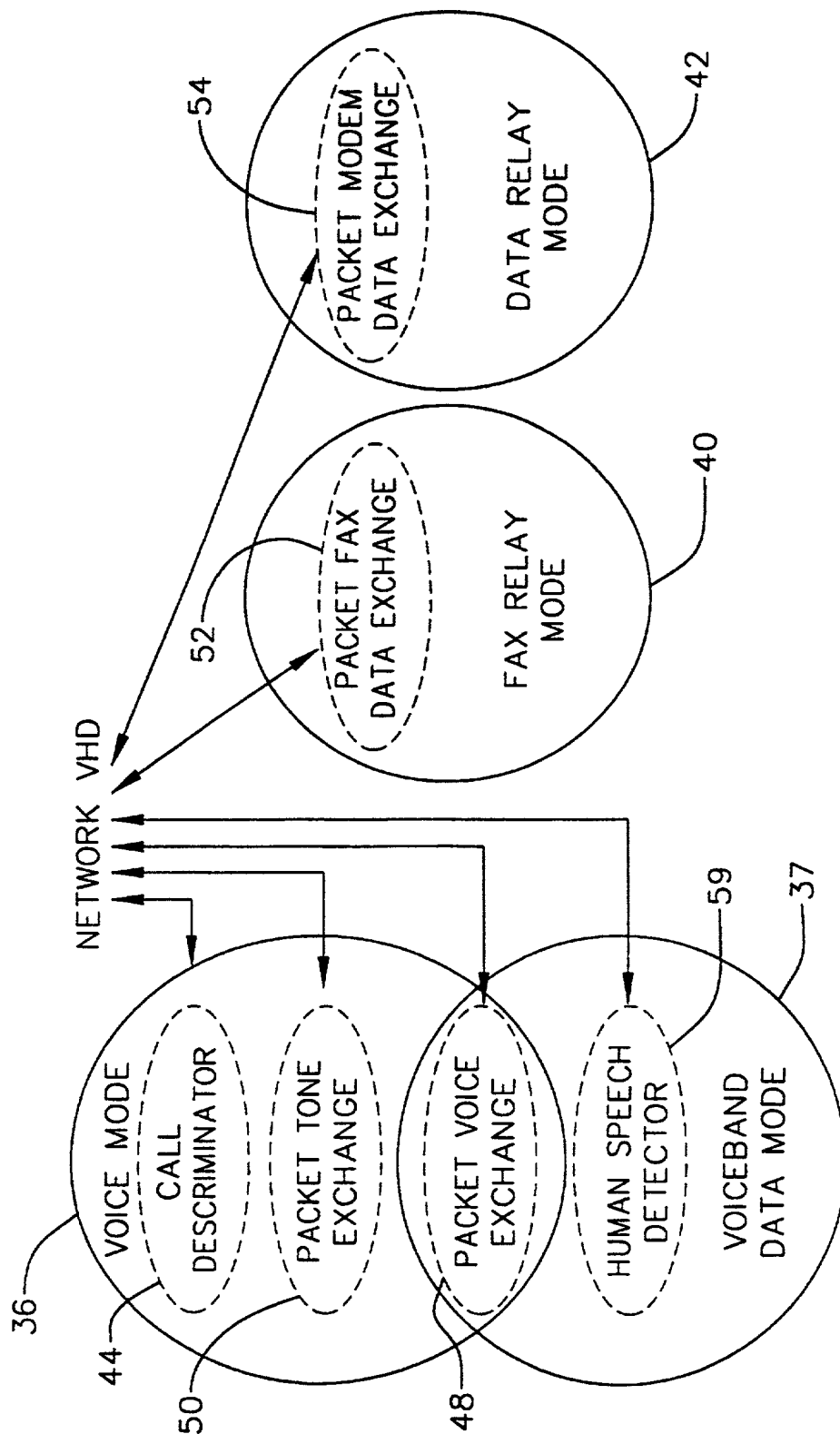


Figure 39

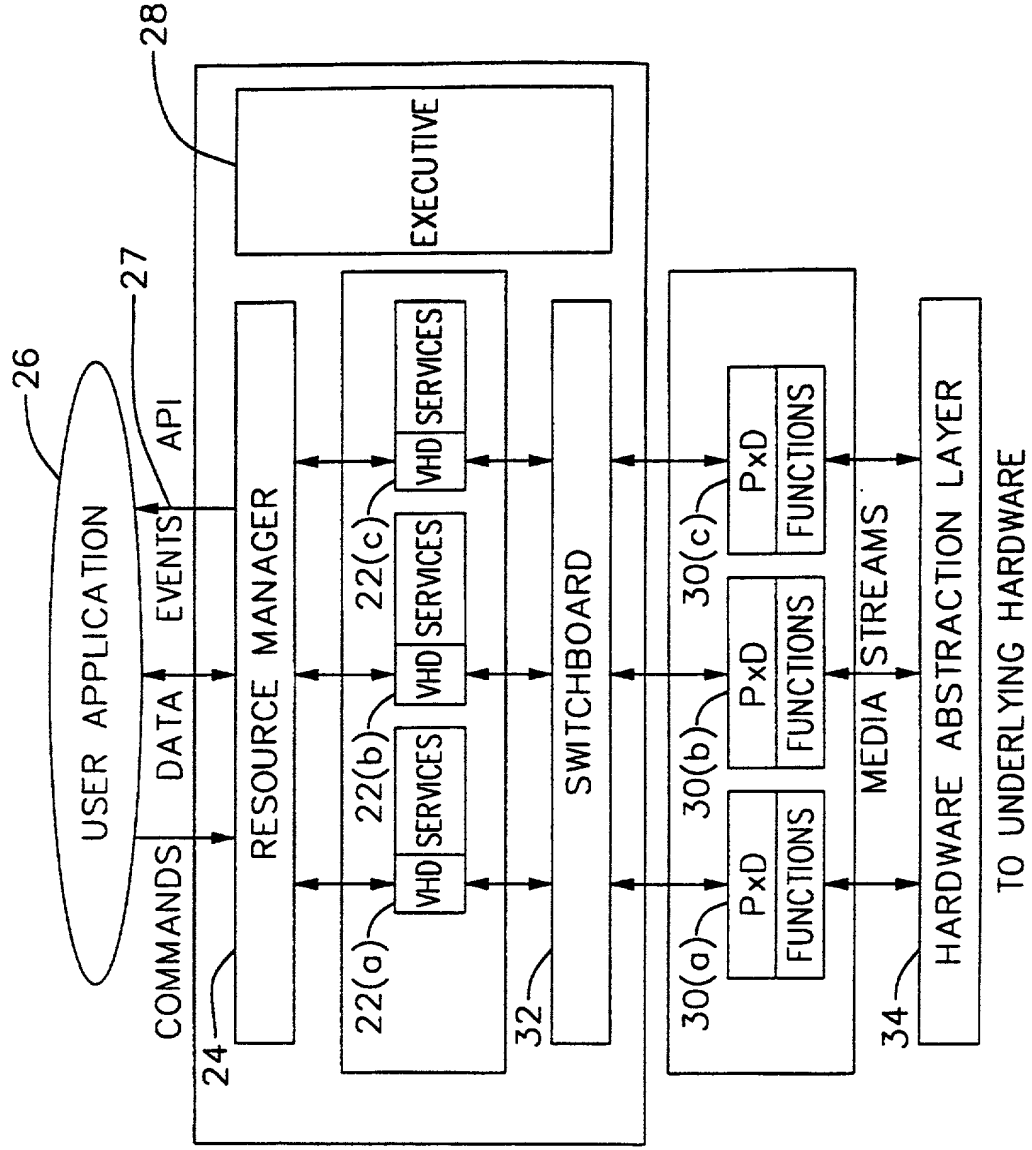


Figure 40

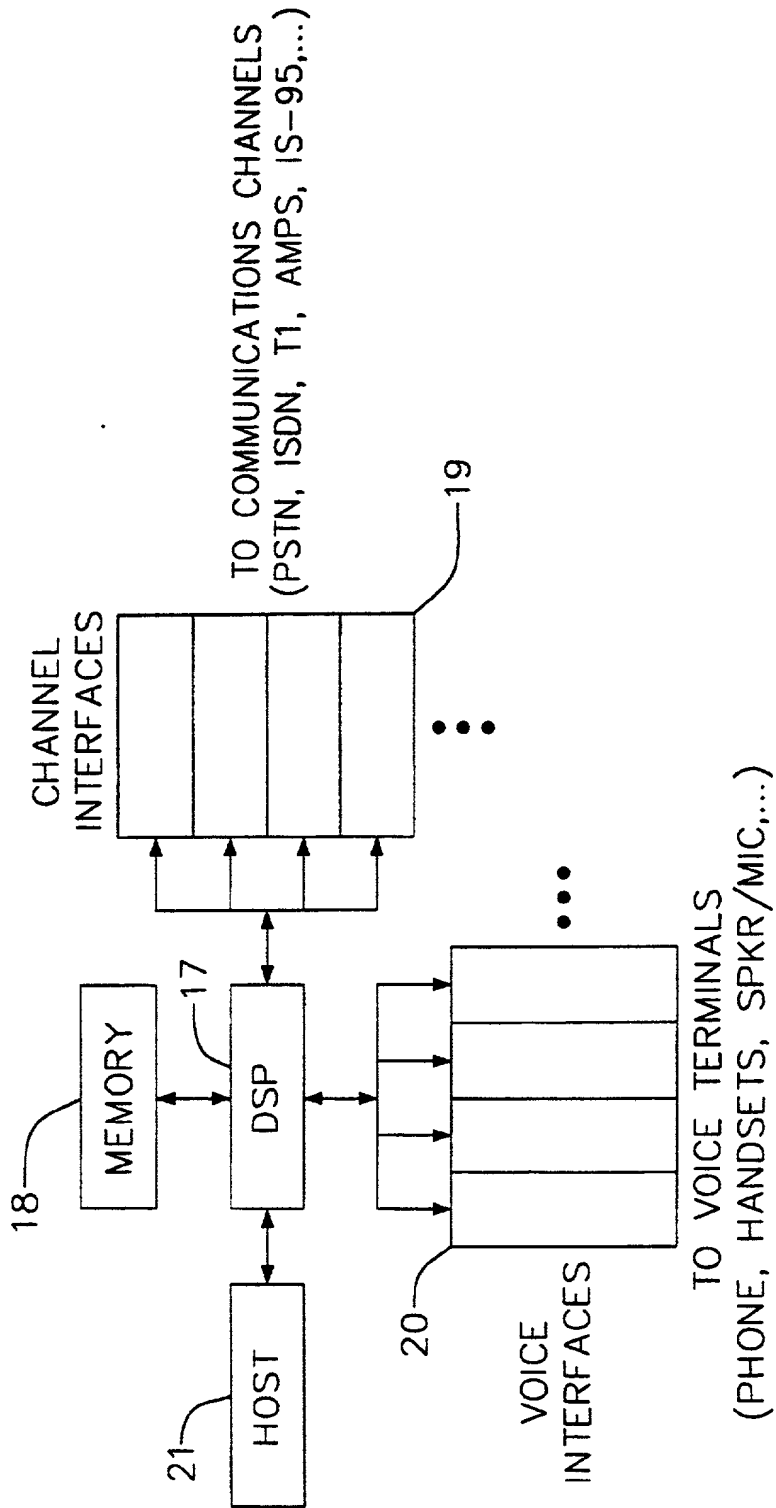


Figure 41

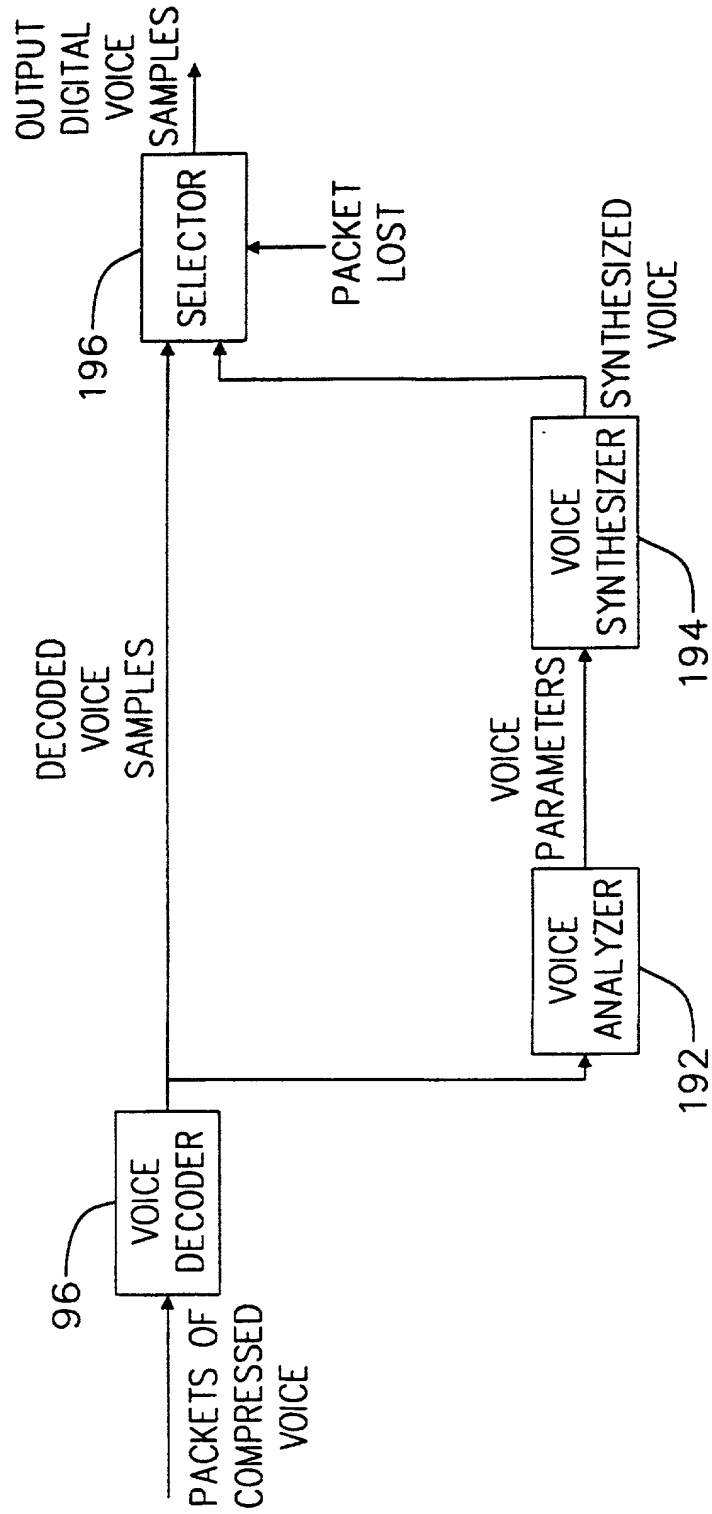


Figure 42

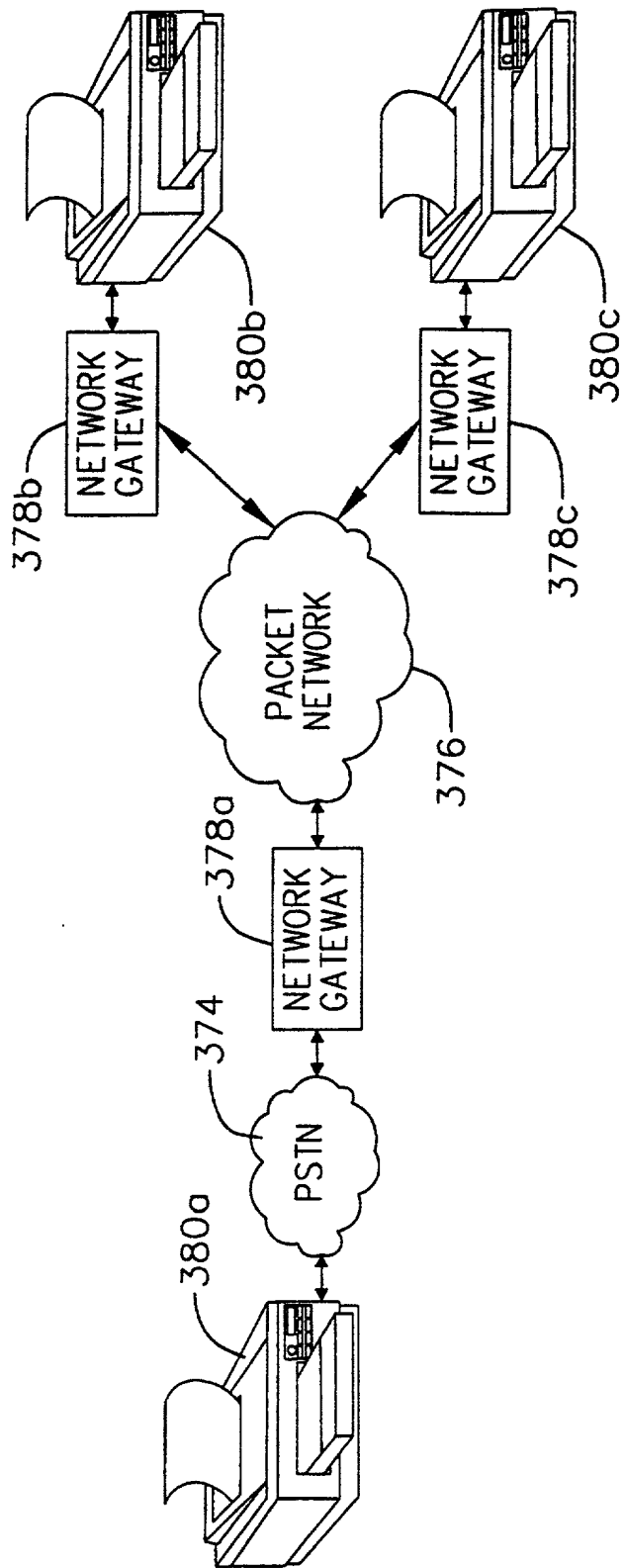




Figure 43

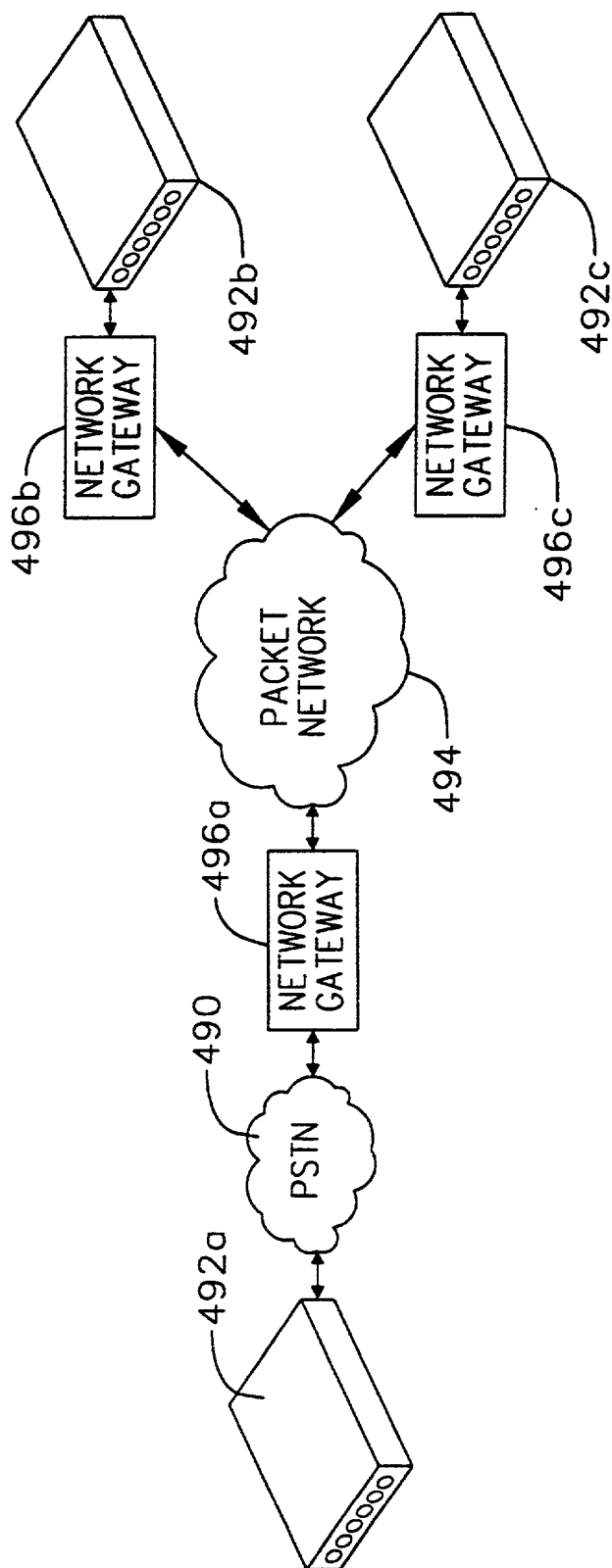


Figure 44

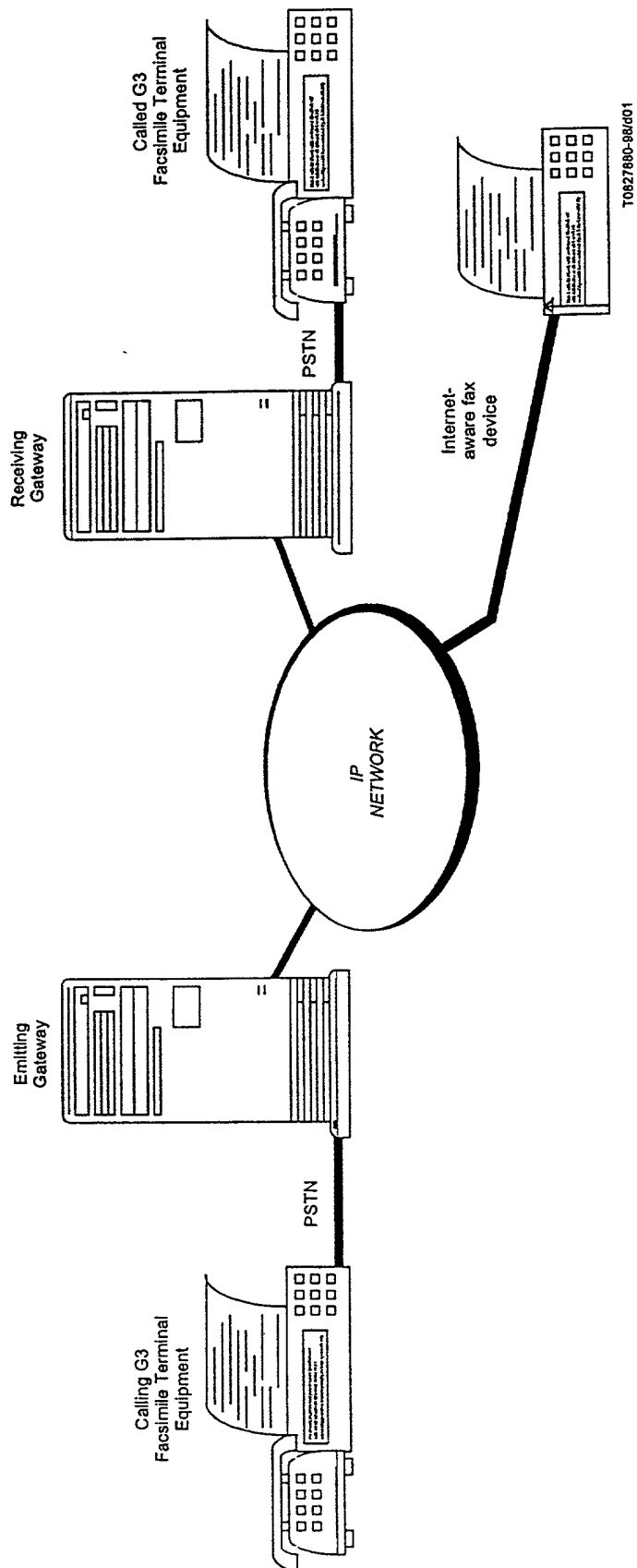


Figure 45

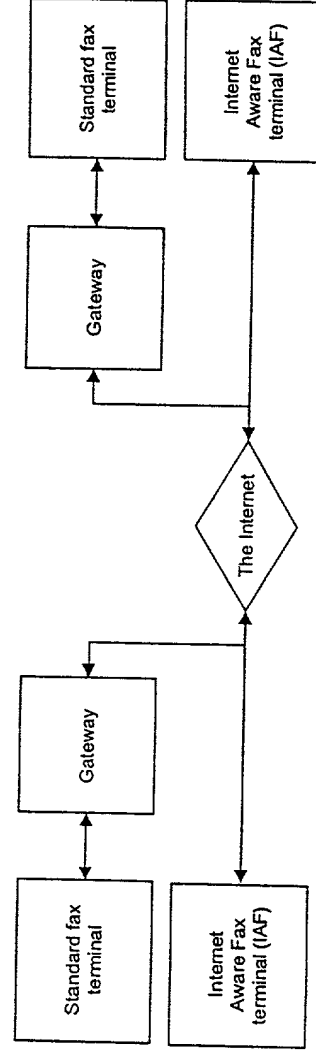
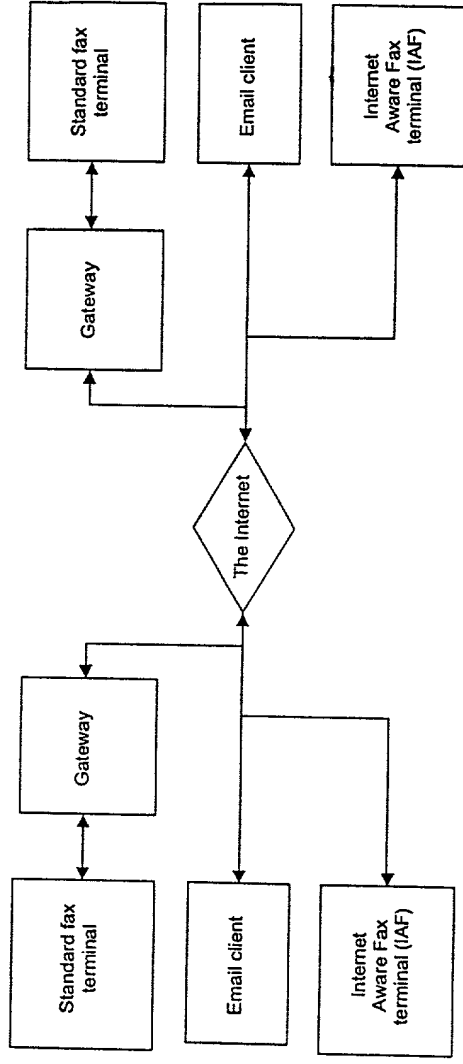


Figure 46

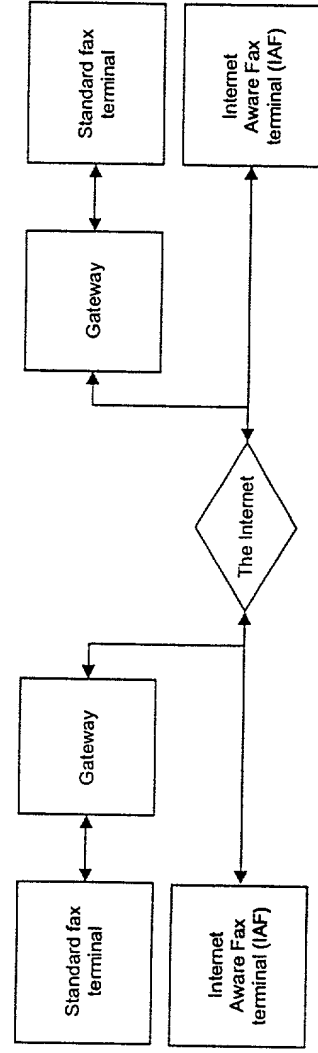
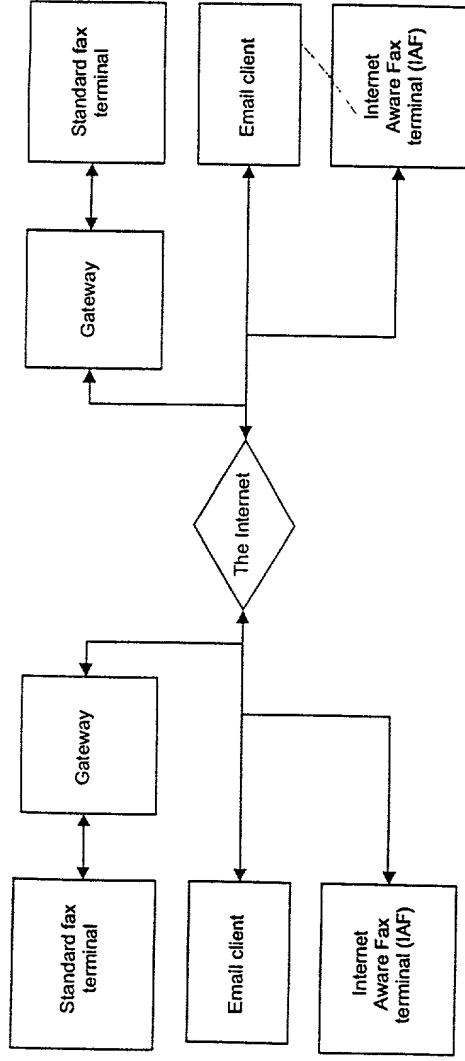


Figure 47

